OWNER'S MANUAL

Emerson®

COLOR TV/VCR/DVD TRIPLE COMBO
EWC19T4 (19 inch)
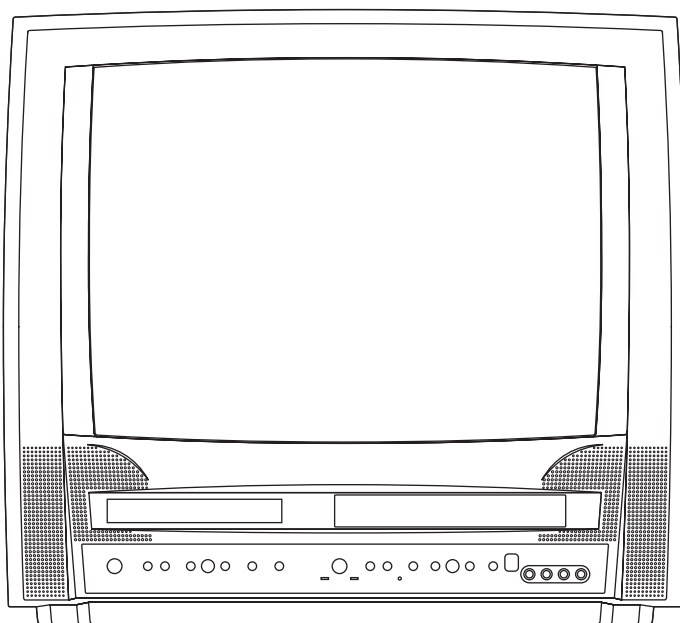
SUPPLIED ACCESSORIES

ACCESSORIES	PART NO.
Remote Control Unit	NE223UD
Batteries	2 AA Batteries
Owner's Manual	1EMN20183

INSTRUCCIONES EN ESPAÑOL INCLUIDAS.

As an ENERGY STAR® Partner, our company has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. ENERGY STAR® is a U.S. registered mark.

VHS

If you need additional operating assistance after reading this owner's manual or to order replacement accessories, please call
TOLL FREE : 1-800-256-2487.
Or visit our **WEB SITE** at **http://www.funai-corp.com**

Please read before using this equipment

IMPORTANT SAFEGUARDS

1.Read instructions-All the safety and operating instructions should be read before the appliance is operated.

2.Retain Instructions-The safety and operating instructions should be retained for future reference.

3.Heed Warnings-All warnings on the appliance and in the operating instructions should be adhered to.

4.Follow Instructions-All operating and use instructions should be followed.

5.Cleaning-Unplug the unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
EXCEPTION: A product that is meant for uninterrupted service and, that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.

6.Attachments-Do not use attachments not recommended by the unit manufacturer as they may cause hazards.

7.Water and Moisture-Do not use this unit near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

8.Accessories-Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury to someone, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the unit. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care.Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
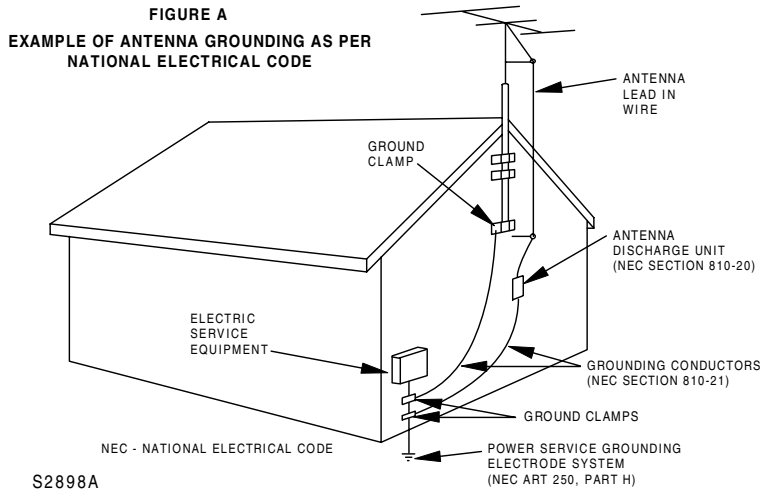
PORTABLE CART WARNING

S3126A

AMEUBLES- Cet appareil ne doit être placé que sur un meuble (avec ou sans roulettes) recommandé par le fabricant. Si vous l'installez sur un meuble à roulettes, déplacez les deux ensembles avec précaution. Un arrêt brusque, l'utilisation d'une force excessive et des surfaces irrégulières risquent de déstabiliser l'ensemble et de le renverser.

SYMBOLE D'AVERTISSEMENT POUR LES COMPOSANTES APPAREIL ET MEUBLE A ROULETTES

S3126A

9. Ventilation-Slots and openings in the cabinet and the back or bottom are provided for ventilation and to ensure reliable operation of the unit and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat register. This unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10.Power Sources-This unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For the unit intended to operate from battery power, or other sources, refer to the operating instructions.

11.Grounding or Polarization-This unit is equipped with a polarized alternating-current line plug(a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

12.Power-Cord Protection-Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

FIGURE A
EXAMPLE OF ANTENNA GROUNDING AS PER
NATIONAL ELECTRICAL CODE

ANTENNA
LEAD IN
WIRE

GROUND
CLAMP

ANTENNA
DISCHARGE UNIT
(NEC SECTION 810-20)

ELECTRIC
SERVICE
EQUIPMENT

GROUNDING CONDUCTORS
(NEC SECTION 810-21)

GROUND CLAMPS

NEC - NATIONAL ELECTRICAL CODE

POWER SERVICE GROUNDING
ELECTRODE SYSTEM
(NEC ART 250, PART H)

S2898A

13. **Outdoor Antenna grounding-**If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (Fig. A)

14. **Lightning-**For added protection for this unit receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power-line surges.

15. **Power Lines-**An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

16. **Overloading-**Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

17. **Object and Liquid Entry-**Never push objects of any kind into this unit through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.

18. **Servicing-**Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. **Damage Requiring Service-**Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. When the power-supply cord or plug is damaged or frayed.

b. If liquid has been spilled, or objects have fallen into the unit.

c. If the unit has been exposed to rain or water.

d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.

e. If the unit has been dropped or damaged in any way.

f. When the unit exhibits a distinct change in performance-this indicates a need for service.

20. **Replacement Parts-**When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, injury to persons or other hazards.

21. **Safety Check-**Upon completion of any service or repairs to this unit, ask the service technician to perform routine safety checks to determine that the unit is in proper operating condition.

22. **Heat-**This unit product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

EN
1B15

PRECAUTIONS

IMPORTANT COPYRIGHT INFORMATION

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

FCC WARNING- This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

RADIO-TV INTERFERENCE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1) Reorient or relocate the receiving antenna.
2) Increase the separation between the equipment and receiver.
3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4) Consult the dealer or an experienced radio/TV technician for help.

LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM.

LOCATION: INSIDE, NEAR THE DECK MECHANISM.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

LOCATION

For safe operation and satisfactory performance of your unit, keep the following in mind when selecting a place for its installation:

- Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes at the top or bottom of the unit. Do not place the unit on a carpet because this will block the ventilation holes.
- Install unit in a horizontal position.
- Avoid locations subject to strong vibration.
- Do not place the unit near strong magnetic fields.
- Avoid moving the unit to locations where temperature differences are extreme.

AVOID THE HAZARDS OF ELECTRICAL SHOCK AND FIRE

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from an AC wall outlet. Grasp it by the plug.
- If by accident, water is spilled on your unit, unplug the power cord immediately and take the unit to our Authorized Service Center for servicing.
- Do not put your fingers or objects into the disc loading tray of the unit.
- Do not place anything directly on top of the unit.

WARNING

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place or after heating a cold room or under conditions of high humidity. If a DVD is played in a unit which has moisture, it may damage the DVD and the unit. Therefore when the condensation occurs inside the unit, turn the POWER on and allow at least 2 hours for the unit to dry out.

SYMBOLS USED IN THIS MANUAL

The following symbols below appear in some headings and notes in this manual, with the following meanings

TV/VCR
: Description refers to TV/VCR operation (in the TV/VCR mode).

DVD-V
: Description refers to playback of DVD video discs (in the DVD mode).

CD
: Description refers to playback of Audio CDs (in the DVD mode).

MP3
: Description refers to playback of MP3 discs (in the DVD mode).

QUICK
: Description refers to the items to be set by the QUICK mode (in the DVD mode).

A NOTE ABOUT RECYCLING

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

The serial number of this product may be found on the back of the unit. No other TV/VCR/DVD has the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft. Serial numbers are not kept on file.

Date of Purchase	
Dealer Purchase from	
Dealer Address	
Dealer Phone No.	
Model No.	
Serial No.	

TABLE OF CONTENTS

FEATURES

TV/VCR Mode

- **Hi-Fi system–**The Hi-Fi stereo recording system offers you excellent sound quality with a dynamic range of 80dB, frequency response from 20Hz to 20kHz and 0.005% wow and flutter.
- **Rotary 4-head Record/Playback System–**Four heads ensure excellent picture quality and special effects playback.
- **Index Search–**Fast-forwards to start of next recording.
- **Slow Motion–**View recorded program at slower than normal speed.
- **Infrared remote control**
- **Trilingual on screen TV/VCR setup display selectable in English, Spanish or French**
- **Real time counter–**This shows the elapsed recording or playback time in hours, minutes and seconds. The "–" indication will appear when the tape is rewound further than the tape counter position "0:00:00".
- **181 channel capability PLL frequency synthesizer tuner with direct station call–**(A converter may be necessary to view scrambled cable channels.)
- **Auto Clock Setting–**Allows you to set the clock function from a PBS broadcast station.
- **Closed caption system–**You may view specially labeled (cc) TV programs, movies, news, prerecorded tapes, etc. with either a dialogue caption or text display added to the program.
- **Auto power on and off system–**Automatically turns on the unit when you insert the cassette, turns off after auto-rewind and ejects when the beginning of the tape is reached.
- **Auto rewind when the end of a tape is reached–**This function doesn't occur when using timer recording.
- **Smooth mode change–**TV/VCR mode DVD mode automatically changes without control.

- **2 Step picture search operation–**You can view a video program at a high speed or super high speed in either a forward or reverse direction in LP and SLP mode. For SP mode only high speed.
- **Three different playback tape speeds : SP/LP/SLP**
- **Two different recording tape speeds : SP/SLP**
- **Auto Head Cleaner–**Automatically cleans video heads as you insert or remove a cassette.
- **Zero Return–**The tape returns to counter of 0:00:00 by rewinding or fast forwarding.
- **Still–**"Freeze" the picture at any time, for close viewing of a particular scene.
- **Digital Auto Tracking (DTR)–**Automatically adjusts the tracking for each tape you play.
- **Rental play mode–**Improves playback picture quality from worn tapes, such as rental tapes.
- **Auto repeat–**Allows you to repeat the playing of a tape indefinitely without pressing the PLAY button.
- **Time search–**Let you set the unit to advance the tape by entering the desired playback time you want to skip.
- **OTR (One Touch Recording)–**Instant timed recording from 30 to 480 minutes is possible at the push of the REC/OTR button.
- **1 Year, 8 events (including Daily and Weekly Timer Recording)–**The built-in timer allows you to record up to 8 programs at different times on different channels up to 1 year in advance. The Daily timer allows recordings to be made of daily broadcasts and the Weekly timer allows recording to be made once a week up to the end of the tape.
- **Auto return–**After timer recording is finished, the unit can return to the beginning of the recording.
- **Sleep timer–**Allows you to have the unit automatically turn off at a desired time.
- **Timer Program Extension–**Allow you to shift the time schedule for automatic timer recording.
- **V-CHIP–**Enables parents to prevent their children from watching inappropriate material on TV.

DVD Mode

● **Dolby Digital sound**
This unit can handle Dolby Digital surround sound having 5.1 channels when connected to a Dolby Digital decoder.

● **Still/fast/slow/step playback**
Various playback modes are available including still pictures, fast forward/reverse, slow motion and step frames.

● **Random playback for Audio CD and MP3**
This unit can shuffle the order of tracks to play them in random order.

● **Program playback for Audio CD and MP3**
You can program the order of tracks to play them in any desired order.

● **DVD menus in a desired language**
You can display DVD menus in a desired language, if available on a DVD.

● **Screen saver/Auto power-off functions**
The screen saver program starts when there is no input from the unit for 5 minutes in the stop mode. When the screen saver program is activated for 15 minutes, the power automatically turns off.

● **Subtitles in a desired language**
You can select a desired language for the display subtitles, if that language is available on a disc.

● **Selecting a camera angle**
You can select the desired camera angle, if a disc contains sequences recorded from different angles.

● **Choices for audio language and sound mode**
You can select the desired audio language and sound mode, if different languages and modes are available on a disc.

● **Parental lock**
You can set the control level to limit playback of discs which may not be suitable for children.

● **Automatic detection of discs**
This unit automatically detects if the loaded disc is DVD, Audio CD or MP3 on disc.

● **Playback MP3 disc**

● **On-screen display**
Information about the current operation can be displayed on a TV screen, allowing you to confirm the currently active functions (such as program playback), on the TV screen using the remote control.

● **Search**
Chapter search / Title search / Track search / Time search

● **Repeat**
Chapter / Title / Track / Group / All / A-B

● **Marker**
The part designated by user can be called back.

● **Resume Play**
User can resume to playback from the part at which the play was stopped.

● **Virtual Surround**

● **Bit rate indication**

● **DRC (Dynamic range control)**
You can control the range of sound volume.

NOTE:

● We do not recommend the use of universal remote controls. Not all of the functions may be controlled with a universal remote control.
If you decide to use a universal remote control with this unit, please be aware that the code number given may not operate this unit. In this case, please call the manufacturer of the universal remote control.

OPERATING CONTROLS AND FUNCTIONS

- FRONT PANEL - [Fig.1]
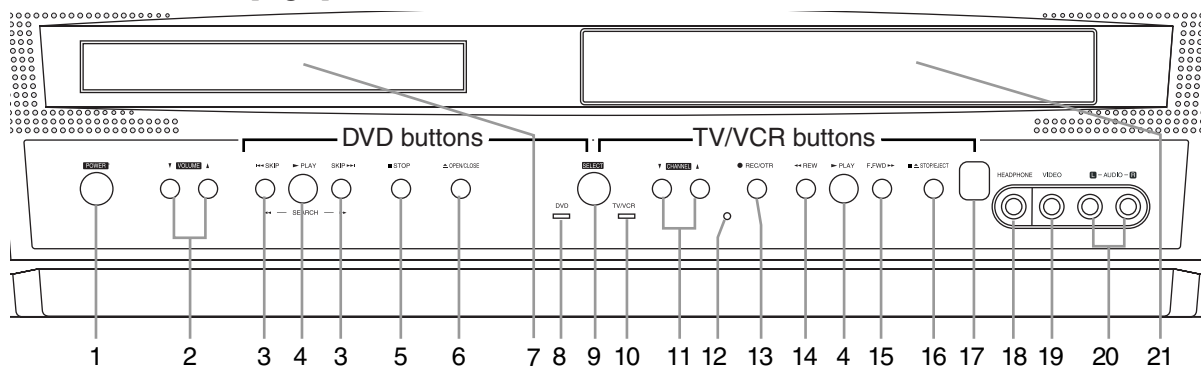
- REMOTE CONTROL -   [Fig. 2]
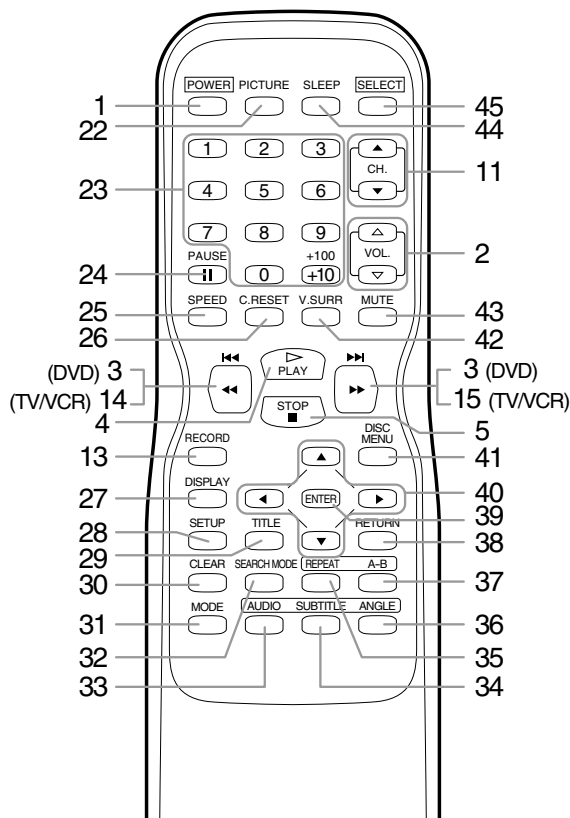
1. POWER Button [TV/VCR P.15 / DVD P.37]
Press to turn the power on and off.

2. VOLUME (VOL.) △/▽ Buttons
Press to control the volume level for the DVD and TV.

3. SKIP/SEARCH Buttons (for DVD) [P.38]
Press once to skip chapters or tracks to a desired point.
Press and hold to change forward or reverse playback speed.

4. PLAY Button [TV/VCR P.26 / DVD P.37]
Starts playback of the disc or tape contents.

5. STOP Button [TV/VCR P.26 / DVD P.37]
Stops operation of the disc. (front panel)
Stops operation of the disc or tape contents. (remote control)

6. OPEN/CLOSE Button [DVD P.37]
Press to insert discs into or remove them from the tray.

7. Disc loading tray

8. DVD Indicator
Illuminates during DVD mode.

9. SELECT Button
Press to change to TV/VCR mode, external input mode or DVD mode.

10. TV/VCR Indicator
Illuminates during TV/VCR mode.

11. CHANNEL (CH.) ▲/▼ Buttons
Press to select memorized channel.

12. Recording Indicator
Flashes during recording. Illuminates in the Stand-by mode for Timer Recording.

13. REC/OTR Button (Front Panel) [TV/VCR P.30, 31]
Press to start manual recording. Press repeatedly to start One Touch Recording (only during TV/VCR mode).
RECORD Button (Remote Control) [TV/VCR P.30]
Press to start manual recording.

14. REW Button (for TV/VCR) [TV/VCR P.26]
Press to rewind the tape, or to view the picture rapidly in reverse during playback mode. (Rewind Search)

15. F.FWD Button (for TV/VCR) [TV/VCR P.26]
Press to rapidly advance the tape, or to view the picture rapidly in forward during playback mode. (Forward Search)

16. STOP/EJECT Button [TV/VCR P.28]
Press to stop the tape motion. Press in the Stop mode to remove tape from the unit.

17. Remote sensor window

18. HEADPHONE Jack
To connect headphone (not supplied) for personal listening.

- REAR PANEL - [Fig.3]

46 47   48

19. VIDEO input Jack
   Connect to the video output jack of a video
   camera or VCR.

20. AUDIO L/R input Jacks
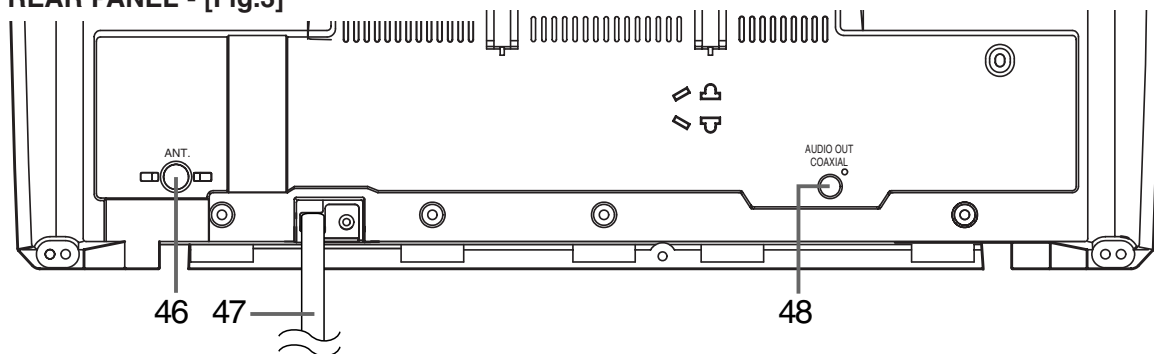   Connect to the audio output jacks of a video
   camera or VCR.

21. Cassette compartment

22. PICTURE Button
   Press to adjust the picture.

23. Number Buttons
   TV/VCR Mode: [P.18]
   Press two digits to directly access the desired
   channel.
   Remember to press a "0" before a single digit
   channel.
   +100 Button–
   Press to select cable channels which are equal or
   greater than number 100.
   DVD Mode:
   Press to enter the desired number.
   +10 Button–
   Press to enter the desired numbers which are
   equal or greater than number 10.

24. PAUSE Button [TV/VCR P.26 / DVD P.38]
   Pauses the current disc or tape operation.

25. SPEED Button [TV/VCR P.30]
   Press to choose the desired recording speed: SP/SLP.

26. C.RESET Button [TV/VCR P.28]
   Press to reset counter to 0:00:00.
   Press to cancel a setting of timer program.
   (See page 33.)

27. DISPLAY Button
   TV/VCR Mode:
   Display the counter or the current channel number
   and current time on the TV screen.
   DVD Mode: [P.43]
   Displays the current status on the TV screen for
   checking purposes.

28. SETUP Button [TV/VCR P.15] [DVD P.44-46]
   Press to enter or exit the TV menu or DVD setup
   mode.

29. TITLE Button [DVD P.37]
   Displays the title menu.

30. CLEAR Button
   Resets a setting.

31. MODE Button [DVD P.40]
   Activates program playback or random playback mode.

32. SEARCH MODE Button [DVD P.39]
   Press to locate a desired point.

33. AUDIO Button [DVD P.42]
   Press to select a desired audio language or sound
   mode.

34. SUBTITLE Button [DVD P.42]
   Press to select a desired subtitle language.

35. REPEAT Button [DVD P.40]
   Repeats playback of the current disc, title, chapter,
   group or track.

36. ANGLE Button (DVD mode) [DVD P.42]
   Press to change the camera angle to see the
   sequence being played back from a different angle
   if available.

37. A-B REPEAT Button [DVD P.40]
   Repeats playback of a selected section.

38. RETURN Button
   Returns to the previous operation in the DVD
   setup mode.

39. ENTER Button
   Press to accept a setting.

40. Arrow Buttons
   TV/VCR Mode:
   Press to select a setting mode from the menu on
   the TV screen.
   Press to select or adjust from a particular menu.
   DVD Mode:
   Use when making settings while watching the
   display on a TV screen.

41. DISC MENU Button [DVD P.37]
   Displays the menus in the DVD.

42. V. SURR (VIRTUAL SURROUND) Button [DVD P.42]
   Sets virtual surround on/off.

43. MUTE Button
   Mutes the sound. Press it again to resume sound.

44. SLEEP Button [TV/VCR P.34]
   Sets the Sleep Timer.

45. SELECT Button
   Press to switch TV/VCR and DVD mode. You can see the mode (TV/VCR or DVD) on the front panel indicator.

46. ANT. in Jack
   Connect to an antenna, cable system or satellite system.

47. Power cord
   Connect to a standard AC outlet (120V/60Hz).
   NOTE: Remove the power cord from the hook to avoid breaking a wire before you connect to a standard AC outlet.

48. COAXIAL digital audio out Jack
   Connect to the digital input of an external amplifier or decoder (for DVD audio only).

PREPARATION FOR USE

ANTENNA/CABLE CONNECTION

[Fig. 4]
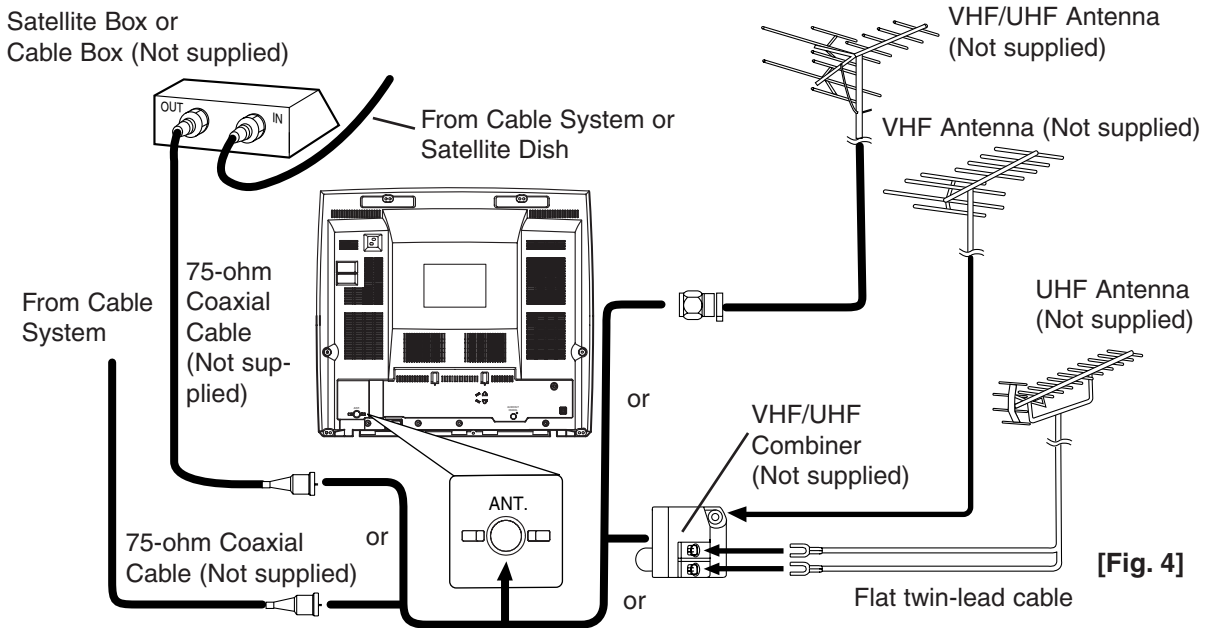
VHF/UHF SEPARATE ANTENNAS

In some areas it will be necessary to use an outdoor antenna.

CABLE WITHOUT CONVERTER/ DESCRAMBLER BOX

Use this connection if your cable system connects directly to your unit without a converter box.

By using this connection you can:

1) Use the unit's remote control to select channels.
2) Program one or more unscrambled channels for Automatic Timer Recording.

NOTE: This unit will ONLY record and view the same channel.

CABLE WITH CONVERTER/ DESCRAMBLER BOX OR SATELLITE BOX

If your cable service supplies you with a converter box or if you use a satellite system, you can use the basic connection shown in the illustration.

By using this connection you can also record scrambled channels. However, channel selection must be made with the converter box or satellite box. This means that channels cannot be changed using the remote control. Unattended timer recording is limited to one channel at a time.

**Antenna/Cable Connections
Continued on the Next Page.**

TO RECORD A SCRAMBLED/UNSCRAM-BLED CHANNEL

1. Set the unit's channel selector to the output channel of the Cable Converter Box or Satellite Box (Ex. CH3).
2. Select the channel to record from your Cable Converter Box or Satellite Box.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

CONNECTING TO EXTERNAL INPUT JACKS

When you watch a program recorded on another source (VCR or video camera), use the AUDIO/VIDEO input jacks on the front panel.

Connect the audio/video output jacks of another source to the AUDIO L/R and VIDEO jacks of this unit.

Then press the CHANNEL button ▲ or ▼ until "AUX" appears on the screen.

NOTE:

• When you connect a monaural VCR (another source) to this unit, connect the Audio output jack of the monaural VCR (another source) to the AUDIO L jack of this unit. The audio will output in both L and R channel equally.

To the audio output jacks

[Another source]

Audio/Video cable (not supplied)

etc.

To the video output jack

[Front of the unit]
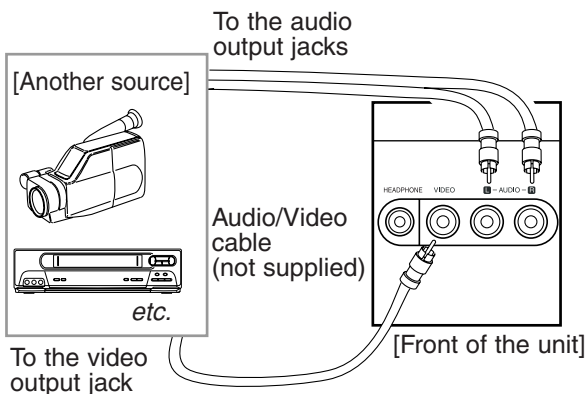
[Fig. 5]

INSTALLING THE BATTERIES

1) Open the battery compartment cover by pressing the cover on the remote unit in the direction of the arrow.
2) Insert 2 "AA" penlight batteries into the battery compartment in the direction indicated by the polarity (+/-) markings.
3) Replace the cover.
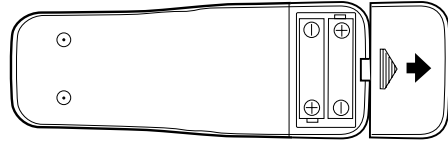
EXTERNAL INPUT MODE

When using an external input signal (another VCR or video camera), connect the player's audio/video output cables to the AUDIO L/R IN/ VIDEO IN jacks of your unit. Then press the CHANNEL button ▲ or ▼ until "AUX" appears on the screen.

AUX

CONNECTING TO A STEREO AMPLIFIER EQUIPPED WITH DIGITAL INPUT JACKS SUCH AS MD DECK OR DAT DECK (for DVD)

Use an audio coaxial digital cable available at retail for the audio connections.
Connecting to an amplifier equipped with digital input jacks such as MD Deck or DAT Deck.

Amplifier equipped with digital input jacks, MD deck, DAT deck, etc.

To COAXIAL DIGITAL AUDIO INPUT jack

To DIGITAL AUDIO OUT (PCM/BITSTREAM) COAXIAL jack (only DVD AUDIO OUT)
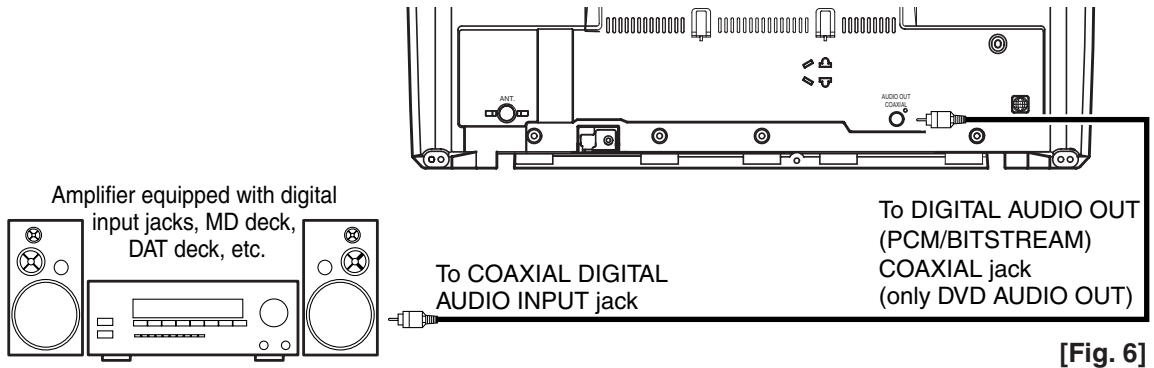
[Fig. 6]

NOTES:

- The audio source on a disc in a 5.1 channel Dolby Digital surround format cannot be recorded as digital sound by an MD or DAT deck.
- Be sure to turn off the power to all components in the system before connecting another component.
- Refer to the Owner's Manuals for the components to be connected to the unit.
- Set Dolby Digital to OFF for audio output in the setup mode. Playing a unit with incorrect settings may generate noise distortion and may also damage the speakers.

CONNECTING TO A DOLBY DIGITAL DECODER (for DVD)

If you use this unit to play a DVD disc in a 5.1 channel Dolby Digital surround format, the unit outputs a DOLBY DIGITAL Data stream from its COAXIAL digital audio out jack. By hooking the unit up to a Dolby Digital decoder, you can enjoy a more convincing, realistic ambience with powerful and high-quality surround sound as enjoyed in movie theaters.

Use audio coaxial digital cables available at retail for the audio connections.

Front speaker (left)

Center speaker

Front speaker (right)

Dolby Digital decoder

To COAXIAL DIGITAL AUDIO INPUT jack

To DIGITAL AUDIO OUT (PCM/BITSTREAM) COAXIAL jack

Surround speaker (left)

Surround speaker (right)

Subwoofer
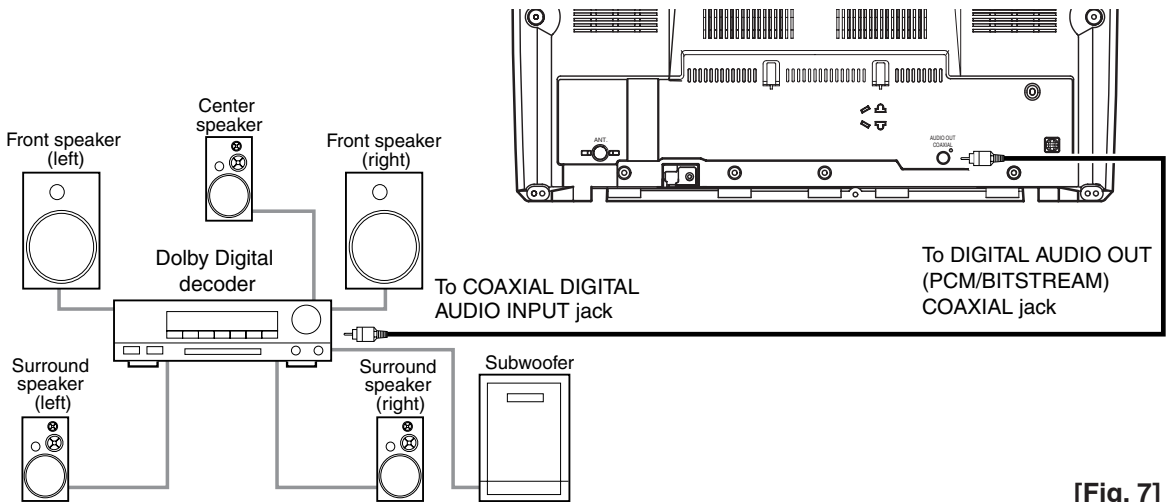
[Fig. 7]

NOTES:

• Be sure to turn off the power to all components in the system before connecting another component.

• Refer to the Owner's Manuals for the components to be connected to the unit.

• If connected to a Dolby Digital decoder, set DOLBY DIGITAL to ON for audio output in the setup mode. (See page 45 to set DOLBY DIGITAL to ON.)

• Unless connected to a Dolby Digital decoder, set DOLBY DIGITAL to OFF for audio output in the setup mode. Playing a unit with incorrect settings may generate noise distortion and may also damage the speakers.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

SET UP FOR USE

SELECTING THE LANGUAGE

TV/VCR

1 **Plug in the power cord**

Plug the unit's power cord into a standard AC outlet.

NOTE:

• If any digits appear in the corner of the screen, press the POWER button without unplugging the power cord.
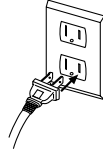
Make sure ...

• Press the SELECT button to select TV/VCR mode or make sure TV/VCR lights on.
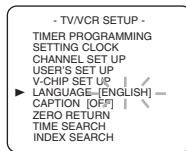• Press the POWER button to turn on the unit.

NOTE:

This function effects only the language on the screen menu and not the audio source.

2 **Select "LANGUAGE"**

Press the SETUP button on the remote control.

Press the Arrow button ▲ or ▼ to point to "LANGUAGE".

```
- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
► LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH
```

3 **Select "ENGLISH", "ESPAÑOL" or "FRANÇAIS"**

Select "ENGLISH", "ESPAÑOL"= Spanish or "FRANÇAIS"= French using the ENTER button.

4 **Exit the Language mode**

Press the SETUP button on the remote control to return to TV mode.

NOTE:

If for some reason the menu is in Spanish or French, press the SETUP button on the remote control, press the Arrow button ▲ or ▼ to point to "IDIOMA [ESPAÑOL]" or "LANGAGE [FRANÇAIS]", then press the ENTER button, then press the SETUP button on the remote control.

CLOCK SET UP (AUTO / MANUAL)

TV/VCR

The unit's clock must be set correctly before VCR timer recording is possible. It is suggested that the clock be set manually when first setting up the unit, then set to [ON] the auto clock setting which will periodically correct the setting if necessary.

NOTE:

If you cannot receive a station with time signals, the auto clock setting cannot be performed. Use manual setting only.

MANUAL CLOCK SETTING

Make sure ...

• The unit is turned on.

In the example below, the clock is to be set to:

DATE	May 6th, 2004
SETTING TIME	5:40PM

1 **Select "SETTING CLOCK"**

Press the SETUP button on the remote control.

Press the Arrow button ▲ or ▼ to point to "SETTING CLOCK". Then press the ENTER button.

```
- TV/VCR SETUP -
► TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH
```
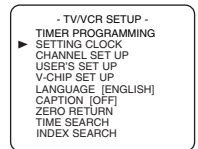
2 **Select "MANUAL CLOCK SET"**

Press the Arrow button ▲ or ▼ to point to "MANUAL CLOCK SET".

Then press the ENTER button.

```
– SETTING CLOCK –

AUTO CLOCK        [ON]
AUTO CLOCK CH SEARCH
AUTO CLOCK CH    [ 02 ]
► MANUAL CLOCK SET
D.S.T.           [OFF]
```
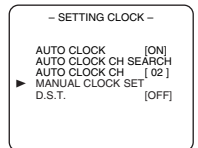
3 **Select the month**

Press the Arrow button ▲ or ▼ until your desired month appears. (Example: May → 05)

Then press the Arrow button ► (or press the Arrow button ◄ to go back one step).

```
– MANUAL CLOCK SET –

MONTH  DAY      YEAR

 0 5   --  --- ----

HOUR   MINUTE

 -- : -- --
```
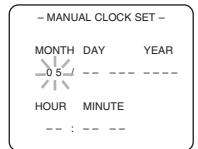
4 **Select the day**

Press the Arrow button ▲ or ▼ until your desired day appears. (Example: 6th → 06)

Then press the Arrow button ►.

```
– MANUAL CLOCK SET –

MONTH  DAY      YEAR

 0 5   0 6 --- ----

HOUR   MINUTE

 -- : -- --
```
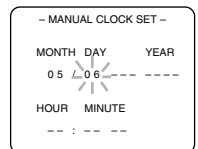
5 Select the year

Press the Arrow button ▲ or ▼ until your desired year appears. (Example: 2004)

Then press the Arrow button ►.

```
– MANUAL CLOCK SET –

MONTH  DAY     YEAR
 05 / 06  THU  2004

HOUR   MINUTE
-- : -- --
```
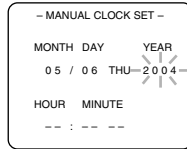
6 Select the hour

Press the Arrow button ▲ or ▼ until your desired hour appears. (Example: 5, PM)

Then press the Arrow button ►.

```
– MANUAL CLOCK SET –

MONTH  DAY     YEAR
 05 / 06  THU  2004

HOUR   MINUTE
 05  -- PM
```

7 Select the minute

Press the Arrow button ▲ or ▼ until the desired minute appears. (Example: 40)

```
– MANUAL CLOCK SET –

MONTH  DAY     YEAR
 05 / 06  THU  2004

HOUR   MINUTE
 05  40 PM
```
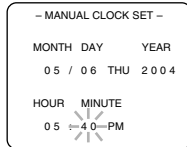
8 Start the clock

Press the SETUP button on the remote control.

```
5:40 PM
```

Although seconds are not displayed, they begin counting from 00 when you press the SETUP button on the remote control. Use this feature to synchronize the clock with the correct time.

NOTE:

When unplugging the AC cord or if there is a power failure for more than 3 seconds, you may have to reset the clock.

TO CHANGE CLOCK SETTING

If you want to change the clock,

1) Follow the steps [1] to [2].
2) Select where you want to change using the Arrow button ►.
3) Enter correct numbers using the Arrow button ▲ or ▼.
4) Press the SETUP button on the remote control to start the clock.

PLEASE NOTE:

If there is no local PBS station in your area or on your cable system, select "AUTO CLOCK" and press the ENTER button to turn [OFF] this function. Then you can manually adjust the clock.

AUTOMATIC CLOCK SETTING

Make sure ...

• The unit is turned on.
• Confirm the unit is receiving a RF (Radio Frequency) signal from either an antenna or cable system connection using the ANT. jack on the rear panel.

NOTE:

• If a cable converter box is being used, make sure it is powered on.
• You must use the unit's remote control to perform the clock setting procedure.
• If the unit is connected directly to a cable converter box or satellite box, the local PBS station must be selected on the cable box itself and the unit must be set to the output channel of the cable converter box or satellite box (usually channel 3 or 4), to be able to set up or correct the clock automatically.

1 Select "SETTING CLOCK"

Press the SETUP button on the remote control.
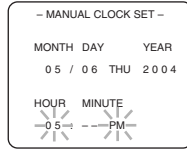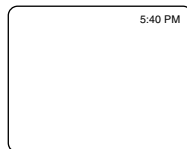
Press the Arrow button ▲ or ▼ to select "SETTING CLOCK".

Press the ENTER button to enter "SETTING CLOCK" menu.

```
- TV/VCR SETUP -
TIMER PROGRAMMING
► SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH
```
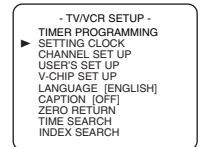
2 Set "AUTO CLOCK" to [ON]

Press the ENTER button until "AUTO CLOCK [ON]" appears.

```
– SETTING CLOCK –

► AUTO CLOCK      [ON]
AUTO CLOCK CH SEARCH
AUTO CLOCK CH  [ 02 ]
MANUAL CLOCK SET
D.S.T.          [OFF]
```

3 Begin "AUTO CLOCK CH SEARCH"

Press the Arrow button ▼ to select "AUTO CLOCK CH SEARCH".

Press the ENTER button.

```
– SETTING CLOCK –

AUTO CLOCK      [ON]
► AUTO CLOCK CH SEARCH
AUTO CLOCK CH  [ 02 ]
MANUAL CLOCK SET
D.S.T.          [OFF]
```

• The unit is now searching for the station which contain the auto clock set signal. The search for a signal may take up to 20 seconds per channel.
• "_ _" appears at the lower left of the screen when the search has ended.

```
– AUTO CLOCK CH SEARCH –

08  10  13




--
```

• Auto Clock station- write down the number(s) that appear on the screen. These are the auto clock station(s) in your area. See step [4] on page 17.
• If no number(s) appear on the TV screen, there are no stations in your area which contain the Auto Clock signal. Auto Clock Setting is not possible. Please use Manual Clock Setting on page 15.

Press the SETUP button to exit the screen.
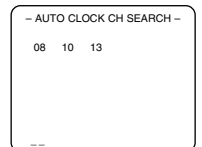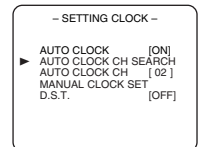
NOTE: During Auto Clock CH Search, the picture may be distorted, this is normal.

---

4 **Enter the channel number that contains the Automatic Clock Setting Signal**

Press the SETUP button on the remote control.

Press the Arrow button ▲ or ▼ to select "SETTING CLOCK".

Press the ENTER button to enter "SETTING CLOCK" menu.

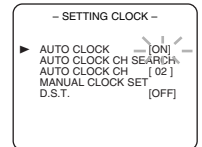Press the Arrow button ▼ to select "AUTO CLOCK CH".

Press the ENTER button or the Arrow button ◄ or ► until you locate Auto Clock Set station number. See step [3] on page 16.

Press the SETUP button to exit the screen.

```
- TV/VCR SETUP -
TIMER PROGRAMMING
► SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE  [ENGLISH]
CAPTION  [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH
```

```
– SETTING CLOCK –

AUTO CLOCK        [ON]
AUTO CLOCK CH SEARCH
► AUTO CLOCK CH    [ 45]
MANUAL CLOCK SET
D.S.T.            [OFF]
```

---

5 **Turn off the unit**

Once the unit is turned off, it will periodically check and set the correct date and time.

DAYLIGHT-SAVING TIME

TV/VCR

Select this feature and the unit's clock automatically will advance one hour in April, then reverse one hour in October.

When Daylight-Saving Time is ON, the clock will change automatically as follows:

• **First Sunday of April :** At 2 AM the clock immediately changes to 3 AM. Any timer programming you have set to occur between 2 AM and 3 AM will not record.

• **Last Sunday of October :** At 2 AM the clock immediately changes to 1 AM.

Make sure ...

• Press the POWER button to turn on the unit.

---

1 **Select "SETTING CLOCK"**

Press the SETUP button on the remote control.

Press the Arrow button ▲ or ▼ to point to "SETTING CLOCK".

Then press the ENTER button.

```
- TV/VCR SETUP -
TIMER PROGRAMMING
► SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE  [ENGLISH]
CAPTION  [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH
```

---

2 **Set "D.S.T." (Daylight-Saving Time) to [ON]**

Press the Arrow button ▲ or ▼ to point to "D.S.T.".

Then press the ENTER button until [ON] appears.

```
– SETTING CLOCK –

AUTO CLOCK        [ON]
AUTO CLOCK CH SEARCH
AUTO CLOCK CH     [ 02 ]
MANUAL CLOCK SET
► D.S.T.          [ON]
```

---

3 **Exit the Daylight-Saving Time mode**

Press the SETUP button on the remote control to return to TV mode.

TO CANCEL THE DAYLIGHT-SAVING TIME

Repeat steps [1] to [2] and select [OFF] using the ENTER button.

CHANNEL SET UP

TV/VCR

You can program the tuner to scan all the channels you receive in your area.

NOTE:

Channel memory programming is NOT needed when connected to a cable box or satellite box. Just select the unit's channel selector to the output channel of the cable box or satellite box (Ex CH3), then select the channel to be viewed on the Cable Box or Satellite Box.
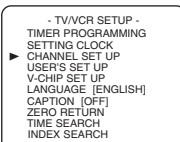
Make sure ...

• Press the POWER button to turn on the unit.

---

1 **Select "CHANNEL SET UP"**

Press the SETUP button on the remote control.

Press the Arrow button ▲ or ▼ to point to "CHANNEL SET UP". Then press the ENTER button.

```
- TV/VCR SETUP -
  TIMER PROGRAMMING
  SETTING CLOCK
► CHANNEL SET UP
  USER'S SET UP
  V-CHIP SET UP
  LANGUAGE [ENGLISH]
  CAPTION [OFF]
  ZERO RETURN
  TIME SEARCH
  INDEX SEARCH
```

---

2 **Begin auto ch programming**

Press the Arrow button ▲ or ▼ to point to "AUTO CH PROGRAM-MING".

Then press the ENTER button.

The tuner scans and memorizes all the active channels in your area.

```
– CHANNEL SET UP –

  ADD / DELETE CH (CATV)

► AUTO CH PROGRAMMING
```

---
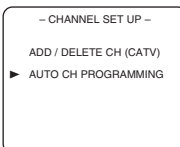
3 **After scanning**

The tuner stops on the lowest memorized channel.

• When AUTO CH PROGRAMMING is activated where there is no TV signal input, "NO TV SIG-NALS" will appear on the display after the completion of the channel scanning.

• The unit may recognize TV channels to be CATV channels by the receiving conditions. In this case, try AUTO CH PROGRAMMING again in the fine receiving conditions.

DELETING (OR ADDING) CHANNEL(S)

TV/VCR

The channels you no longer receive or seldom watch can be deleted from the memory. (Of course, you can add the deleted channel into the memory again.)

---

1 **Select "CHANNEL SET UP"**

Press the SETUP button on the remote control.

Press the Arrow button ▲ or ▼ to point to "CHANNEL SET UP". Then press the ENTER button.

```
- TV/VCR SETUP -
  TIMER PROGRAMMING
  SETTING CLOCK
► CHANNEL SET UP
  USER'S SET UP
  V-CHIP SET UP
  LANGUAGE [ENGLISH]
  CAPTION [OFF]
  ZERO RETURN
  TIME SEARCH
  INDEX SEARCH
```

---
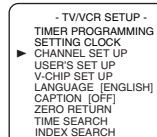
2 **Select "ADD/DELETE CH"**

Press the Arrow button ▲ or ▼ to point to "ADD/DELETE CH". Press the ENTER button.

```
– CHANNEL SET UP –

► ADD / DELETE CH (CATV)

  AUTO CH PROGRAMMING
```

---

3 **Enter the desired channel number**

Press the Arrow button ▲ or ▼ until your desired channel number appears. (You can also use the number buttons or the CHANNEL button ▲ or ▼ to enter it) (Example: CH8)

```

          08

     ADD / DELETE
```

• You must precede single-digit channel numbers with a zero (Example: 02 ... 09).

• When selecting cable channels which are higher than 99, press the +100 button first, then, press the last two digits. (Example: to select channel 125, first press the +100 button then press "2" and "5").

---
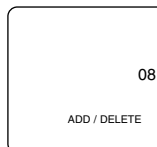
4 **Delete (or add) it from (or into) memory**

Press the ENTER button. The channel number changes to light red. The channel is deleted from memory.

• To delete another channel, repeat steps [3] to [4].

• If you press the ENTER button again, the channel is memorized again.

Added channel: Light blue
Deleted channel: Light red

---

5 **Exit the channel setup mode**

Press the SETUP button on the remote control to return to TV mode.

NOTE:

To confirm that channel(s) has been deleted or added, press the CHANNEL button ▲ or ▼.

EN
1C29

TV OPERATION

WATCHING A TV PROGRAM

TV/VCR

1 Turn on the unit
Press the POWER button to turn on the unit.

2 Select the channel number
Press the CHANNEL button ▲ or ▼ to select your desired channel number or press the number on the remote control.

Note for using the Number button on the remote control:
- You must precede single-digit channel numbers with a zero (For example: 02, 03, 04 and so on).
- When selecting cable channels which are higher than 99, press +100 first, then, press the last two digits. (Example: to select channel 125, first press "+100" then press "2" and "5").

Remember: If the unit is connected to a cable box or satellite box, the unit must be on CH3 or CH4, then the channel to be viewed must be selected on the cable box or satellite box.

3 Adjust sound
Press the VOLUME button △ or ▽ to adjust the volume.

VOLUME   20
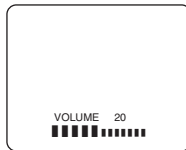
NOTES:
- If you press the CHANNEL button ▲ or ▼ in the DVD mode, you can change the TV channels.
  Even if you turn off the unit in the DVD mode, it will go into the TV/VCR mode when you turn it on again.

DEGAUSSING

TV/VCR

Magnetism from nearby appliances and speakers might affect the color of the TV picture.

If this happens, move this unit away from the appliance. If the color is still not correct, unplug the power cord, then plug it in again 30 minutes later or so.

PICTURE CONTROL

TV/VCR

The unit's picture controls – **BRIGHT, CONTRAST, COLOR, TINT** and **SHARPNESS** – are preset to factory specifications. Although they are usually the best, you may need to make some further adjustments for a more natural looking image.

NOTES:
- Procedures must be followed within 5 seconds or the Picture Control mode will be cancelled.

Make sure ...
- The unit must be turned on.

1 Select "PICTURE CONTROL"
Press the PICTURE button on the remote control.

2 Select item you want to adjust
Press the Arrow button ▲ or ▼ until desired control is displayed.

BRIGHT
CONTRAST
COLOR
TINT
SHARPNESS
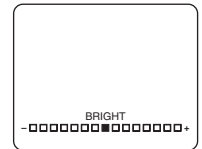
BRIGHT
–□□□□□□□■□□□□□□□+

3 Adjust the picture control
Press the Arrow button ◄ or ► to adjust to your desired level.

	Arrow button ◄	Arrow button ►
BRIGHT	to decrease brightness	to increase brightness
CONTRAST	to decrease contrast	to increase contrast
COLOR	to pale	to brilliant
TINT	to purple	to green
SHARPNESS	to soft	to clear

- **If there is a power failure of any kind, the unit will retain its memory for this feature.**

CLOSED CAPTION SYSTEM

TV/VCR

You can view specially labeled (cc) TV programs, movies, news and pre-recorded tapes with either a dialogue caption or text display.

CAPTION mode: By choosing the caption mode, you can watch dramas, movies and news while captioning the dialogues and the contents of news.

TEXT mode: By choosing the text mode, you can watch half screen text information if you want.

1-2: You may get these captions or text information by selecting either "1" or "2". Caption "2" is used, usually for a second language if available.

NOTE:

Not all programs are broadcast with closed captions. Your unit is designed to provide error free closed captions from high quality antenna, cable and VCR signals. Conversely, poor quality signals are likely to result in caption errors or no captions at all. Common signal conditions which may cause caption errors are listed below:

- Automobile ignition noise
- Electric motor brush noise
- Weak snowy reception on TV screen
- Multiplex signal reception displaying picture ghosts or airplane flutter.
- Playback of poorly recorded or worn VCR tapes.

NOTE:

If the unit displays a black box on the TV screen, this means that the unit is set to the TEXT mode. To clear screen, select [CAPTION1], [CAPTION2] or [OFF].

Make sure ...

- The unit is turned on.

1 **Select "CAPTION"**

Press the SETUP button on the remote control.
Press the Arrow button ▲ or ▼ to point to "CAPTION".

```
- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
► CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH
```

2 **Select your desired caption menu**

Press the ENTER button until your desired caption menu appears.
([CAPTION1], [CAPTION2], [TEXT1] or [TEXT2])

```
- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
► CAPTION [CAPTION1]
ZERO RETURN
TIME SEARCH
INDEX SEARCH
```

3 **Exit the caption setting mode**

Press the SETUP button on the remote control to return to TV mode.

TO CANCEL THE CLOSED CAPTION SYSTEM

Repeat steps [1] to [2] and select [OFF] using the ENTER button. Press the SETUP button on the remote control to return to TV mode.

WHEN THE CLOSED CAPTION MODE IS ON

The On-Screen Display will disappear after 5 seconds.

- It will also disappear when the MUTE button or the PAUSE button is pressed while recording.
- If there is a power failure of any kind, the unit will retain its memory for this feature.

V-CHIP SET UP

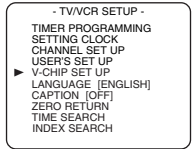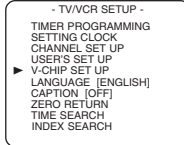**TV/VCR**

V-CHIP SET UP

Make sure ...
• The unit is turned on.

1 Select "V-CHIP SET UP"
Press the SETUP button on the remote control.
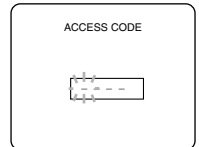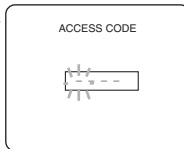
Press the Arrow button ▲ or ▼ to select "V-CHIP SET UP".

Then press the ENTER button.

```
- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
► V-CHIP SET UP
LANGUAGE  [ENGLISH]
CAPTION  [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH
```

2 Enter Access code
Use the number buttons on the remote control to enter the access code.
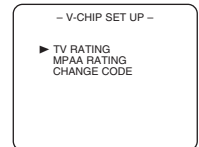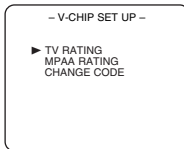
• For the first time set-up or in the event the unit has lost power, enter the default code of the numbers: 0000.

```
ACCESS CODE
```

3 Select "TV RATING"
Press the Arrow button ▲ or ▼ to select "TV RATING".

Then press the ENTER button.

```
– V-CHIP SET UP –
► TV RATING
MPAA RATING
CHANGE CODE
```

4 Blocking TV programs
Press the Arrow button ▲ or ▼ to select "TV rating" that you wish to block.

Press the ENTER button to set it [BLOCK].

```
► TV–Y        [VIEW]
TV–Y7 (   )   [VIEW]
TV–G          [VIEW]
TV–PG (   )   [VIEW]
TV–14 (   )   [VIEW]
TV–MA(   )    [VIEW]
```

•When you select the rating category and set it to [BLOCK], the higher rating will change to [BLOCK] automatically. Also, the lower rating will change to [VIEW] automatically.

• When you set "TV-Y" to [VIEW], then all ratings will change to [VIEW] automatically.
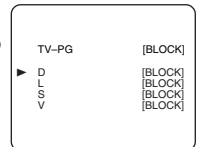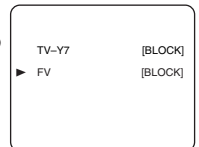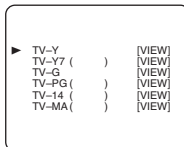
Selection	Rating Category Explanations
TV-Y	Appropriate for all children
TV-Y7	Appropriate for children seven and older
TV-G	General Audience
TV-PG	Parental Guidance suggested.
TV-14	Unsuitable for children under 14
TV-MA	Mature audience only
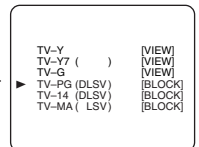
5 Exit the V-Chip setting mode
Press the SETUP button on the remote control to exit the screen.

V-CHIP SET UP SUB RATINGS

When you select the ratings of TV-Y7,TV-PG,TV-14 or TV-MA you will have the option of selecting sub rating categories.

1 Select "V-CHIP SET UP"
Press the SETUP button on the remote control.

Press the Arrow button ▲ or ▼ to select "V-CHIP SET UP".

Then press the ENTER button.

```
- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
► V-CHIP SET UP
LANGUAGE  [ENGLISH]
CAPTION  [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH
```

2 Enter Access code
Use the number buttons on the remote control to enter the access code. (Default code is 0000.)

```
ACCESS CODE
```

3 Select "TV RATING"
Press the Arrow button ▲ or ▼ to select "TV RATING".

Then press the ENTER button.

```
– V-CHIP SET UP –
► TV RATING
MPAA RATING
CHANGE CODE
```

4 Selecting Sub-Ratings
Press the Arrow button ▲ or ▼ to select the sub-rating you wish to block. Then press the ENTER button twice.

• **When you select [TV-Y7]:**
  Press the Arrow button ▲ or ▼ to select "FV" (Fantasy Violence). Then press the ENTER button to select [BLOCK] or [VIEW].

```
TV–Y7        [BLOCK]
► FV         [BLOCK]
```
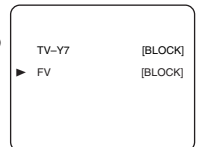
• **When you select [TV-PG], [TV-14] or [TV-MA]:**
  Press the Arrow button ▲ or ▼ to select "D"(Suggestive Dialog), "L"(Coarse Language), "S"(Sexual Situation) or "V"(Violence). Then press the ENTER button to select [BLOCK] or [VIEW].

```
TV–PG        [BLOCK]
► D          [BLOCK]
  L          [BLOCK]
  S          [BLOCK]
  V          [BLOCK]
```

  Note: When you select [TV-MA], "D" does not appear on the TV screen.

• The sub-ratings which are set to [BLOCK] appears next to the rating category in the TV rating menu.

```
TV–Y            [VIEW]
TV–Y7 (   )     [VIEW]
TV–G            [VIEW]
► TV–PG (DLSV)  [BLOCK]
  TV–14 (DLSV)  [BLOCK]
  TV–MA ( LSV)  [BLOCK]
```
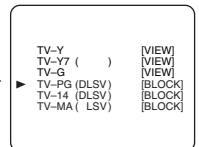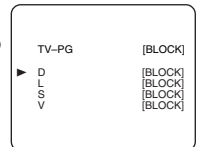
5 Exit the V-Chip setting mode
Press the SETUP button on the remote control to enter the setting and exit the screen.

CHANGING V-CHIP BLOCKED PRO-GRAMMING

Note: To change the rating, the TV must be turned to a station that is not protected. If the (PROTECTED) appears on the screen, please change the channel to a station that is not protected.

1) Follow steps [1] to [2].
2) Press the Arrow button ▲ or ▼ to select "TV RAT-ING, then press the ENTER button. Select a TV rating to be unblocked by pressing the Arrow button ▲ or ▼.
   Then press the ENTER button to unblock the rating.
3) Press the SETUP button on the remote control to exit the screen.

MPAA RATING SET UP

1 Select "V-CHIP SET UP"

Press the SETUP button on the remote control.

Press the Arrow button ▲ or ▼ to select "V-CHIP SET UP". Then press the ENTER button.

```
- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
► V-CHIP SET UP
LANGUAGE  [ENGLISH]
CAPTION  [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH
```

2 Enter Access code

Use the number buttons on the remote control to enter the access code.

```
ACCESS CODE
- - - -
```

3 Select "MPAA RATING"

Press the Arrow button ▲ or ▼ to point to "MPAA RATING". Then press the ENTER button.

```
– V-CHIP SET UP –
TV RATING
► MPAA RATING
CHANGE CODE
```
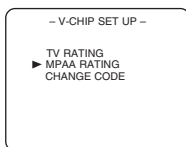
4 Select your desired item

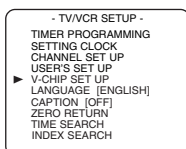Press the Arrow button ▲ or ▼ to point to your desired item. Then press the ENTER button to select [BLOCK] or [VIEW].

```
G            [VIEW]
PG           [VIEW]
PG–13        [VIEW]
► R          [BLOCK]
NC–17        [BLOCK]
X            [BLOCK]
```
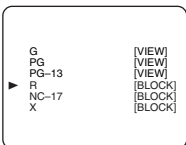
Selection	Rating Category Explanations
G	General Audience
PG	Parental Guidance suggested.
PG-13	Unsuitable for children under 13
R	Restricted; under 17 requires accompanying parent or adult guardian
NC-17	No one under 17 admitted
X	Mature audience only

• When you select the rating category and set it to [BLOCK], the higher rating will change to [BLOCK] automatically. Also, the lower rating will change to [VIEW] automatically.
• When you set "G" to [VIEW], then all ratings will change to [VIEW] automatically.

5 Exit the V-Chip setting mode

Press the SETUP button on the remote control to exit the screen.

CHANGE ACCESS CODE

To change access code, follow the steps below.

1 Select "V-CHIP SET UP"

Press the SETUP button on the remote control.
Press the Arrow button ▲ or ▼ to select "V-CHIP SET UP".
Then press the ENTER button.

2 Enter Access code

Use the number buttons on the remote control to enter the access code.
The default code is 0000.

```
ACCESS CODE
- - - -
```
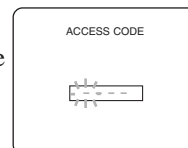
3 Select "CHANGE CODE"

Press the Arrow button ▲ or ▼ to select "CHANGE CODE". Then press the ENTER button.

```
– V-CHIP SET UP –
TV RATING
MPAA RATING
► CHANGE CODE
```
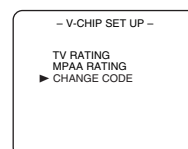
4 Enter New code

Use the number buttons to enter your desired access code in the NEW CODE space. Then enter the same code in the CONFIRM CODE space. V-CHIP SET UP screen appear on the screen.

```
NEW CODE
X X X X
CONFIRM CODE
- - - -
```
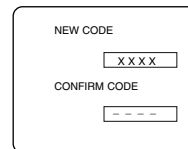
• If you enter wrong code, repeat step [4], making sure you enter the same new code exactly in the confirm code space.

5 Exit the V-Chip setting mode

Press the SETUP button on the remote control to exit the screen.
NOTE:
If you unplug the power cord or a power failure occurs, the changed access code will be lost and will return to default (0000). Change your access code again as necessary.

MTS (Multi-Channel Television sound) SYSTEM

You can record or listen to a program in MTS stereo.

CHECKING THE SELECTED MTS MODE

When you play a VHS tape or receive a broadcast on the unit's tuner channel you are watching, the status shown below will appear when you press the DISPLAY button on the remote control.

```
        PLAY ▶          12:00AM
4) ——— HIFI             CH 123        ——— 3)
                   STEREO/SAP         ——— 2)
                                      ——— 1)

        SP      COUNT    0:00:00
```
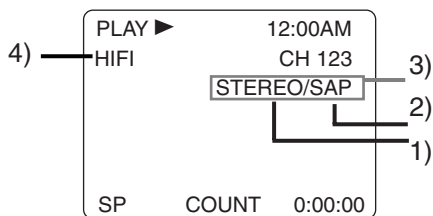
SAP	Second Audio Program, which means your program, can also be received in a second language or sometimes a radio station.
HIFI	High Fidelity which produces better sound than standard stereo units.

1) When a program is broadcast in stereo, STEREO appears on the TV screen.
2) When a program is broadcast in second audio, SAP appears on the TV screen.
3) When a program broadcast both in stereo and second audio, "STEREO" and "SAP" appear on the TV screen.

NOTE: Although a program may be broadcast in both stereo and second audio, you cannot record in both stereo and second audio at the same time.

4) While the unit is set in HIFI stereo mode and playback mode, "HIFI" appears on the TV screen. While the unit is set in monaural (MONO) mode, "HIFI" disappears from the TV screen.

NOTE: If you play non-HIFI tapes while the unit is set in HIFI, "HIFI" will disappear from the TV screen and the unit will automatically play in monaural.

MTS RECORDING/MONITOR MODE

Type of broadcast	Display on the TV screen	STEREO/SAP SELECTION	Hi-Fi audio track (2-channel)		Normal audio track
			L-channel	**R-channel**	
Regular (monaural audio)	-None-	-Invalid-	Mono	Mono	Mono
Stereo broadcast	STEREO	-Invalid-	L	R	L+R
Bilingual broadcast	SAP	STEREO*	Main audio program	Main audio program	Main audio program
		SAP*	Sub audio program	Sub audio program	Sub audio program
Stereo & Bilingual broadcast	STEREO SAP	STEREO*	L	R	L+R
		SAP*	sub audio program	sub audio program	sub audio program

*You must select the recording mode in TV AUDIO [STEREO] or [SAP] when you record a broadcast.

SELECTING THE MTS SYSTEM

Make sure ...
• The unit is turned on.

TO SELECT HIFI MODE

1 **Select "USER'S SET UP"**

Press the SETUP button on the
remote control.

Press the Arrow button ▲ or ▼ to
point to "USER'S SET UP".
Then press the ENTER button.

```
- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
► USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH
```
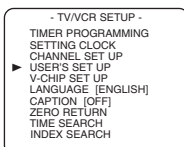
2 **Select "VCR AUDIO"**

Press the Arrow button ▲ or ▼ to
point to "VCR AUDIO".

```
– USER'S SET UP –

RENTAL        [OFF]
REPEAT PLAY   [OFF]
AUTO RETURN   [OFF]
► VCR AUDIO  – [HIFI]
TV AUDIO      [STEREO]
```
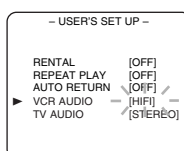
3 **Select [HIFI]**

Press the ENTER button until
[HIFI] appears.

```
– USER'S SET UP –

RENTAL        [OFF]
REPEAT PLAY   [OFF]
AUTO RETURN   [OFF]
► VCR AUDIO  – [HIFI]
TV AUDIO      [STEREO]
```

4 **To return to TV mode**

Press the SETUP button on the remote control to
return to TV mode.

NOTES:

• Normally "HIFI" should be selected for playback
  with HIFI sound.
• When you play non-HIFI tapes, the unit will auto-
  matically play in the monaural mode.
• The unit records automatically MTS broadcasts in
  HIFI stereo sound unless you select [SAP] before
  recording.

TO SELECT MONO MODE

You can change the selection to "MONO" if you
want to listen to HIFI tapes in normal audio play-
back.

1) Press the SETUP button on the remote control.
   Press the Arrow button ▲ or ▼ to point to "USER'S
   SET UP". Then press the ENTER button.
2) Press the Arrow button ▲ or ▼ to point to
   "VCR AUDIO".
3) Press the ENTER button until [MONO] appears.
4) Press the SETUP button on the remote control to
   return to TV mode.

TO SELECT [STEREO], [SAP] OR [MONO]

1 **Select "USER'S SET UP"**

Press the SETUP button on the
remote control.

Press the Arrow button ▲ or ▼ to
point to "USER'S SET UP".

```
- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
► USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH
```
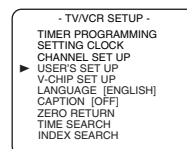
2 **Select "TV AUDIO"**

Press the Arrow button ▲ or ▼ to
point to "TV AUDIO".

```
– USER'S SET UP –

RENTAL        [OFF]
REPEAT PLAY   [OFF]
AUTO RETURN   [OFF]
VCR AUDIO     [HIFI]
► TV AUDIO  – [STEREO] –
```
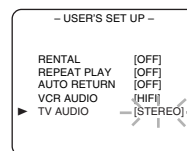
3 **Select [STEREO], [SAP] or [MONO]**

Press the ENTER button until [STEREO], [SAP] or
[MONO] appears.

4 **To return to TV mode**

Press the SETUP button on the remote control to
return to TV mode.

NOTES:

• You must select the recording mode,either TV
  AUDIO [STEREO] or [SAP] when you record a
  broadcast.
  (Refer to MTS RECORDING/MONITOR MODE
  on page 23.)
• If you select [SAP] when second audio is not avail-
  able, the unit will record normal audio.
• The unit records automatically MTS broadcasts in
  HIFI stereo sound unless you select [SAP] before
  recording.

VIDEO CASSETTE

This unit will operate with any cassette that has the |VHS| mark. For best results, we recommend the use of high-quality tapes. Do not use poor quality or damaged tapes.

PRECAUTIONS

- Avoid moisture. Moisture condensation may occur on the tape if it is moved from a cold place to a warm place or visa versa. Before using a tape with these conditions, to avoid damage of the tape and your unit, wait until the tape has warmed to room temperature and the moisture has evaporated.
- Avoid extreme heat, high humidity and magnetic fields.
- Do not tamper with the cassette mechanism.
- Do not touch the tape with your fingers.

TWO DIFFERENT TAPE SPEEDS

Before recording, select the tape speed from : **SP mode** (Standard Play) or **SLP mode** (Super Long Play).
The table below shows the maximum recording/playback time using T60, T120 or T160 tapes in each mode.

Tape Speed	Recording/Playback Time		
Type of tape	T60	T120	T160
SP mode	1 hour	2 hours	2-2/3 hours
SLP mode	3 hours	6 hours	8 hours

NOTE:
You can play back a tape recorded in LP mode (Long Play).

INSERTING A CASSETTE

Insert the cassette in the direction as shown. Push in gently, but continuously, on the center-back of the cassette until it is drawn into the unit. The unit will automatically turn on.

Window

CORRECT   WRONG
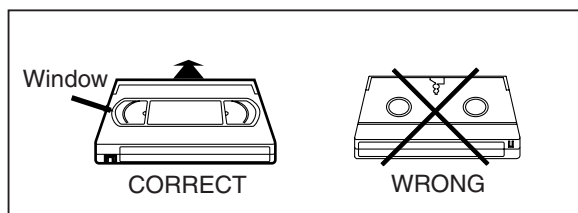
REMOVING A CASSETTE

1) In the Stop mode, press the STOP/EJECT button on the unit. The cassette will be ejected.
2) Pull the cassette out of the cassette compartment.
3) Store the cassette in its case as shown.
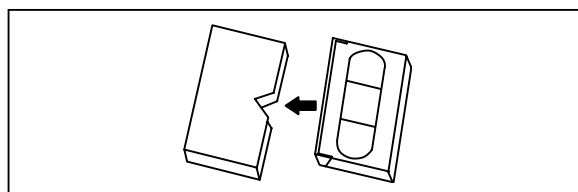
ERASE PREVENTION

You can prevent accidental erasing of recording by breaking off the tab on the back edge of the cassette.

Tab
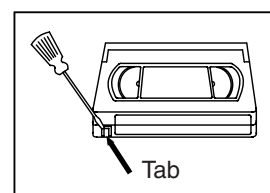
If you decide to record on the tape again, cover the hole with plastic tape.

Plastic Tape
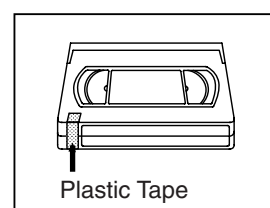
NOTE:
- In DVD mode, whether the cassette is with tab or without tab you insert, it doesn't start playing until you press the PLAY button.
  In TV/VCR mode, if the cassette without tab is inserted, playback will automatically start.

PLAYBACK

NORMAL PLAYBACK

Make sure ...   **TV/VCR**

• The unit is turned on.

1 **Insert a prerecorded tape**

If the erase-protection tab has been removed, the unit will start playback automatically.

2 **To begin playback**   PLAY ▶

Press the PLAY button.

3 **To stop playback**   STOP

Press the STOP button when play-back is completed.

NOTES:

• If you press the PLAY button (of the TV/VCR side) in the DVD mode, you can start the VCR playback.

• If you press the SELECT button during the VCR playback, it will stop and the mode will change to the DVD mode. In addition, the same function operates with the DVD side PLAY button or the OPEN/CLOSE button.

TRACKING ADJUSTMENT

TV/VCR

• Tracking adjustment will be set automatically (Digital Tracking function) when you start playback.

• However when playing pre-recorded tapes or tapes recorded on other VCR, noise lines (black and white streaks) may appear on the playback picture. If this occurs, you can adjust the tracking control manually by pressing the CHANNEL button ▲ or ▼ until the streaks disappear. To return to the DTR function, stop the tape once and start playback again.

• You can reduce the noise lines by pressing the CHANNEL button ▲ or ▼ in slow mode too. Tracking adjustment in Slow mode will not be set automatically.

SLOW MOTION

TV/VCR

Press the PAUSE button, then press the F.FWD ▶▶ button to start the playback in slow motion. The unit mutes the sound during slow motion. Press the PLAY button to return to normal playback.

NOTE: If it is left in Slow mode for more than 5 minutes, the unit will automatically go into Stop mode.

PICTURE SEARCH

TV/VCR

This feature is very useful in finding or skipping over a particular scene on a tape. In this mode, the sound will be muted.

1) You may view a video tape at a high speed in either a forward or reverse direction by pressing the F.FWD ▶▶ or REW ◀◀ button during play-back. (in SP / LP / SLP modes)

NOTE:

• If you press the F.FWD or REW button on the front panel in the DVD mode, the VCR forward or reverse will start. Please press the STOP/EJECT button once to stop it, twice to eject it.

2) Press it again and the unit will now search in super high speed. (in the LP / SLP modes only)

NOTE:

• Tapes recorded in SP or LP mode will display a noise bar on the TV screen and the picture may revert to Black and White. This is normal.

3) Press the PLAY button to return to normal speed.

STILL PICTURE

TV/VCR

You can view a still picture on the TV screen during playback (the Still mode). Press the PAUSE button during playback. Only tapes recorded in SLP mode will show the least amount of lines. Press the PLAY button to return to playback.

NOTES:

• You can advance the picture one frame at a time by pressing the PAUSE button during Still mode.

• If it is left in the Pause mode for more than 5 minutes, the unit will automatically switch to Stop mode.

VERTICAL HOLD CONTROL

TV/VCR

In Pause/Still mode only, when the picture begins to vibrate vertically, stabilize the picture by pressing the CHANNEL button ▲ or ▼.

NOTE:

If there are video noise lines on the screen, see TRACKING ADJUSTMENT.

SPECIAL PLAYBACK

Make sure ...
• The unit is turned on.
• Insert a prerecorded tape.
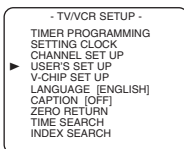
RENTAL PLAYBACK

TV/VCR

This function enables you to improve the picture quality when playing back worn cassettes such as rented tapes.

1 **Select "USER'S SET UP"**

Press the SETUP button on the remote control.

Press the Arrow button ▲ or ▼ to point to "USER'S SET UP". Then press the ENTER button.

```
- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
► USER'S SET UP
V-CHIP SET UP
LANGUAGE  [ENGLISH]
CAPTION  [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH
```

2 **Set "RENTAL" to [ON]**

Press the Arrow button ▲ or ▼ to point to "RENTAL".

Press the ENTER button until [ON] appears.

```
– USER'S SET UP –
► RENTAL          [ON]
REPEAT PLAY       [OFF]
AUTO RETURN       [OFF]
VCR AUDIO         [HIFI]
TV AUDIO          [STEREO]
```
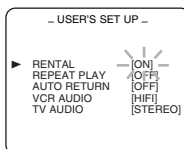
3 **Exit the Rental setting**

Press the SETUP button on the remote control to return to the TV mode.

4 **Start playback**

Press the PLAY button to start playback. "RENTAL PLAY ►" appears.

• Once you select the Rental mode, it stays in effect even after you turn off the unit.

TO CANCEL THE RENTAL MODE

Repeat steps [1] to [2] and select [OFF] using the ENTER button on the remote control. Press the SETUP button on the remote control to return to TV mode.

If there is a power failure of any kind, the unit will retain its memory for this feature.

AUTO REPEAT PLAYBACK

TV/VCR

The unit has the auto repeat function that allows you to repeat a tape indefinitely without touching the PLAY button.

ALL REPEAT: Repeat playback from the beginning to the end of the tape.

BLANK REPEAT: Repeat playback from the beginning to a blank part, which is blank for more than 10 seconds.

1 **Select "USER'S SET UP"**

Press the SETUP button on the remote control.

Press the Arrow button ▲ or ▼ to point to "USER'S SET UP", then press the ENTER button.

```
- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
► USER'S SET UP
V-CHIP SET UP
LANGUAGE  [ENGLISH]
CAPTION  [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH
```
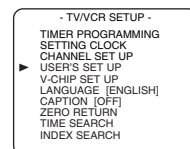
2 **Select "ALL" or "BLANK"**

Press the Arrow button ▲ or ▼ to point to "REPEAT PLAY".

Press the ENTER button repeatedly until your desired selection [ALL] or [BLANK] appears.

```
– USER'S SET UP –
RENTAL            [OFF]
► REPEAT PLAY     [ALL]
AUTO RETURN       [OFF]
VCR AUDIO         [HIFI]
TV AUDIO          [STEREO]
```
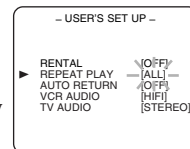
3 **Exit the Repeat Play setting**

Press the SETUP button on the remote control to return to the TV mode.

4 **Start playback**

Press the PLAY button to start the Repeat Play. "REPEAT PLAY ►" appears.

• Once you select Repeat Play mode, it stays in effect even after you turn off the unit.
• If Rental Play mode is set to [ON], "RENTAL PLAY ►" display has priority.

TO CANCEL THE REPEAT PLAY MODE

Repeat steps [1] to [2] and select [OFF] using the ENTER button on the remote control. Press the SETUP button on the remote control to return to TV mode.

If there is a power failure of any kind, the unit will retain its memory for this feature.

SEARCH

Make sure ...
- The unit is turned on.
- Insert a tape.

ZERO RETURN

$\boxed{\text{TV/VCR}}$

This function allows you to search easily a beginning point that you want to review by rewinding or fast forwarding.

NOTE:
Zero Return **WILL NOT** work on a blank tape or a blank portion of a tape.

---

1 **Stop a tape at your desired point**

Rewind or fast forward the tape to the beginning point at which you want to review.

---

2 **Reset the counter to 0:00:00**
Press the C.RESET button repeatedly.

---

3 **Begin recording or playback**
Press the RECORD or PLAY button.

Press the STOP button when recording or playback is completed.

---

4 **To activate "ZERO RETURN" mode**

Press the SETUP button on the remote control.

Press the Arrow button ▲ or ▼ to point to "ZERO RETURN".
Then press the ENTER button.

```
- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION  [OFF]
► ZERO RETURN
TIME SEARCH
INDEX SEARCH
```

The counter will appear on the TV screen.

The tape will automatically stop when the counter returns to 0:00:00.

TIME SEARCH

$\boxed{\text{TV/VCR}}$

The Time Search function makes it possible to quickly advance the tape to your desired position simply by entering the exact amount of playback time you want to skip.

NOTES:
- Time Search can be set up to a maximum of 9 hours 50 minutes (9:50) by 10 minutes at a time.
- This function will not operate in recording mode.
- This function is not operative when a cassette tape is not inserted in the unit.
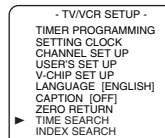
In the example below: To watch a program before/ after 2 hour 50 minutes from the present position, in either direction.

---

1 **Insert a tape**

---

2 **Select "TIME SEARCH" mode**
Press the SETUP button on the remote control.

Press the Arrow button ▲ or ▼ to point to "TIME SEARCH", then press the ENTER button.

```
- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION  [OFF]
ZERO RETURN
► TIME SEARCH
INDEX SEARCH
```

---

3 **Enter your desired time**

Press the Arrow button ▲ or ▼ until your desired time appears. (Example: "2:50" stands for 2 hours 50 minutes)

```
TIME SEARCH
─ 2 : 50 ─
╱ │ ╲
```

If you wish to cancel the Time Search at this point, press the SETUP button on the remote control.

---

4 **Begin Time Search**

By pressing the Arrow button ◄ or ►, the unit will rewind or fast forward to the specified point.

The time counts down as the searching progresses. When 0:00 is reached, the tape will start playback automatically.

TO CANCEL THE TIME SEARCH at this point

Press the STOP/EJECT button on the unit or the STOP button on the remote control. This will delete the selected time.

INDEX SEARCH

This feature provides a method of indexing the starting point so that it can be easily returned to in either fast forward or rewind mode.

- The index mark will be made automatically when the RECORD button is pressed. It will also be marked at the starting point of Timer recording and OTR.
- The index mark will not be recorded if the PAUSE button is pressed and released during recording.
- The time gap between making the index marks on the tape should be greater than 1 minute for SP recording, 2 minutes for LP recording and 3 minutes for SLP recording.
- In some cases, the index mark at the beginning of video tape cannot be detected.

Example: You are watching program number 4 and want to fast forward to program number 7. You must skip three programs.

```
         CURRENT PLAYBACK PROGRAM

Beginning of tape              ↓           End of tape

       Pro.1 Pro.2 Pro.3 Pro.4 Pro.5 Pro.6 Pro.7

      4    3    2    1    1    2    3
   ↱
   INDEX MARK
```
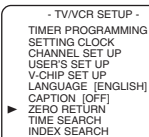
1 Select "INDEX SEARCH"

Press the SETUP button on the remote control.
Press the Arrow button ▲ or ▼ to point to "INDEX SEARCH".
Then press the ENTER button.

```
- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
USER'S SET UP
V-CHIP SET UP
LANGUAGE  [ENGLISH]
CAPTION  [OFF]
ZERO RETURN
TIME SEARCH
► INDEX SEARCH
```

2 Enter your desired number

Press the Arrow button ▲ or ▼ until the number of programs that you want to skip appears.
(Example: "03" for 3 programs)

```
INDEX SEARCH
— 0 3 —
```

- The Index Search mode will be canceled if the procedures are not activated in 30 seconds.
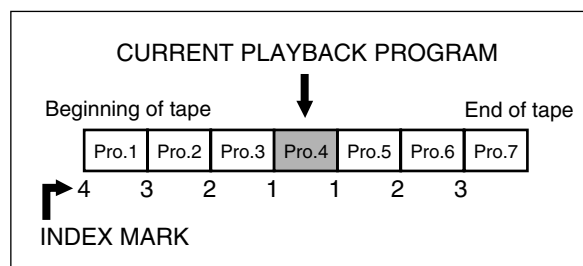
3 Begin Index Search

Press the Arrow button ◄ or ►. The unit begins rewinding or fast forwarding to the beginning of desired program.
NOTE: Every time an index signal is skipped, the number in the program indicator decreases by one.

4 After Index Search

When the preset program is reached, the unit will start playback automatically.

- A video cassette must be inserted in the unit for this function to work.
- The number of Index Searches can be set up to 20.
- This function will not operate in the recording mode.
- When you want to cancel the Index Search while in progress, press the STOP button.

SPECIAL FEATURES

REAL TIME TAPE COUNTER

This shows the elapsed recording or playback time in hours, minutes and seconds. (The displayed time will not change on a blank tape or blank portions on the tape.) The "–" indication will appear when the tape has rewound further than "0:00:00" on the tape counter.

AUTO REWIND-EJECT

- When the end of a tape is reached during recording, playback, or fast-forward, the tape will automatically rewind to the beginning. After rewinding finishes, the unit will eject the tape and turn itself off.
- This function is operative when Repeat Play is set to [OFF].
- The tape will not auto-rewind during timer recording or One Touch Recording.

RECORDING

Make sure ...

• The unit is turned on.
• Insert a cassette tape with its erase prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

NOTES:

• This unit will <u>ONLY</u> record and view the same channel.
• This unit cannot record the contents from the built-in DVD.

NORMAL RECORDING

TV/VCR

You can <u>ONLY</u> watch the same TV program that is being recorded.

1 **Select the channel to be recorded**

Press the number buttons on the remote control or the CHANNEL button ▲ or ▼.

Remember: If the unit is connected to a cable box or satellite box, the unit must be on CH3 or CH4, then the channel to be recorded must be selected on the cable box or satellite box.

CH 10
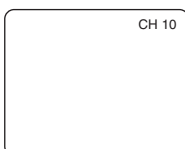
2 **Select the tape speed**

Press the SPEED button to select the desired tape speed (SP/ SLP).

SP

3 **Begin recording**

Press the RECORD button.

REC

SP
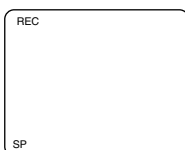
4 **Stop recording**

Press the STOP button when recording is completed.

SKIPPING UNWANTED SCENES DURING RECORDING

TV/VCR

Press the PAUSE button to temporarily stop recording.

Press the PAUSE or RECORD button to resume recording.

NOTES:

PAUSE

SP

• After 5 minutes, the unit will automatically switch to Recording mode to prevent tape damage.
• If "CLOSED CAPTION (ON)" is selected, the On-Screen Display will appear for 5 seconds, then disappear.
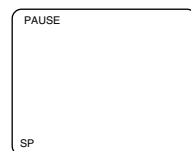
OTR (One Touch Recording)

TV/VCR

This function enables you to set a recording length simply by pressing the REC/OTR button on the unit.

Make sure ...

• The unit is turned on.

• Insert a cassette tape with its erase prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

NOTES:

• You CANNOT start OTR with the remote control.

• Recording starts immediately when the REC/OTR button is pressed.

• When the REC/OTR button is pressed 18 times, the unit returns to the Normal Recording mode.

• To stop the OTR operation, press the STOP button on the unit or on the remote control.

• To show the remaining time, press the DISPLAY button on the remote control so that "OTR" appears on the TV screen. (It will show up momentarily then disappear.)

• Recording stops when 0:00 is reached.

• Please note that in the SLP mode maximum recording time, assuming the tape is started at the beginning, is 8 hours using T-160 (or 6 hours using T-120).

• If the tape runs out before the end time, the unit will switch to the Stop mode immediately, ejects the tape and turns itself off.

• If you press the POWER button during OTR, the unit continues recording until the selected length is reached.

1 Select the channel to be recorded

Press the number buttons on the remote control or the CHANNEL button ▲ or ▼.

Remember: If the unit is connected to a cable box or satellite box, the unit must be on CH3 or CH4, then the channel to be recorded is selected on the cable box or satellite box.

**2** Select the tape speed

Press the SPEED button to select the desired tape speed (SP/ SLP).

3 Begin OTR

Press the REC/OTR button on the unit as many times as needed. The recording length will be determined by the number of times you press the REC/OTR button. Each additional push will increase the recording time by 30 minutes. It is set up to 8 hours.

```
OTR(2 : 30)




SP
```
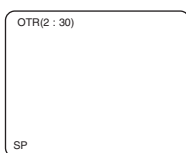
Push(es)	Display	Recording length
1 push	(normal recording)	
2 pushes	0:30	30 minutes
3 pushes	1:00	60 minutes
↓	↓	↓
17 pushes	8:00	480 minutes

COPYING A VIDEO CASSETTE (Requires a VCR or camcorder)

TV/VCR

You can make copies of video tapes made by friends or relatives for your enjoyment.

You can not copy a DVD to a videotape.

> **WARNING: Unauthorized recordings of copyrighted video tapes may be an infringement of copyright laws.**

Connect your unit and a source (playing) VCR using the following diagram.

[This unit] **[Fig.8]**

[Ex: Source (playing) VCR or camcorder]

Audio/Video adapter cable (not supplied)
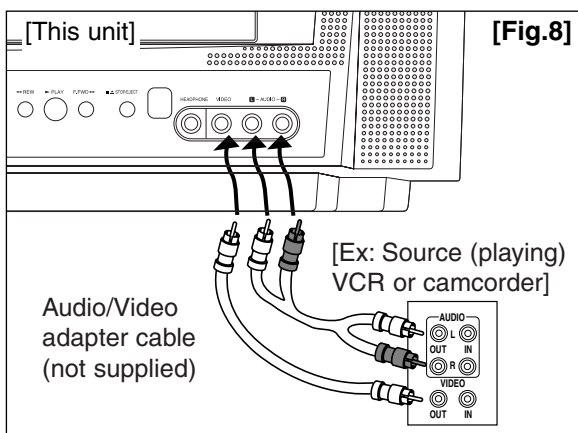
1) Insert a pre-recorded video cassette into the source (playing) VCR or camcorder.

2) Insert a blank video cassette or one you want to record over, into the unit's cassette compartment.

3) Press the SPEED button on remote control to select the desired recording speed (SP/SLP).

4) Press the CHANNEL button ▲ or ▼ on the unit until "AUX" appears on the screen.

5) Press the RECORD button on the unit.

6) Begin playback of the tape in the source (playing) VCR or camcorder.

NOTE:

For best results during copying, use the unit's front panel controls whenever possible. The remote control might affect the source (playing) VCR's playback operation.

7) To stop copying, press the STOP/EJECT button on the unit, then stop the tape on the source VCR or camcorder.

TIMER

AUTOMATIC TIMER RECORDING

TV/VCR

You may set the unit to start and end a recording while you are away. You can set 8 programs to record on specific days, daily or weekly within a 1 year period.

In the example below, the timer is being set to record:

DATE:	July 4th, 2004
SETTING TIME:	from 7:30PM to 8:50PM
CHANNEL:	CH61
TAPE SPEED:	SP

Make sure ...

• If a cable box or satellite box is connected with the unit you will be limited to record only one channel and the channel selector on the unit must be select-ed to the output channel of the boxes CH 3 or CH 4 and then the actual channel to be recorded must be selected on the boxes.
• Clock must be set to the correct time and date before setting the timer.
• The unit's power must be turn on to program it.
• Insert a cassette tape with its erase prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)
• The channel you want to record is properly set in advance. (See page 18.)

Avoid over lap of programs ...

There is a chance that a program will not be record-ed. when programs overlap;

• The program with an earlier start has priority.
• Once the earliest program finishes, the overlapping programs will begin recording in sequence.
• When the starting time is the same, a program set previously has priority.
• The illustration below demonstrates the sequence of recordings.

Program 1	10:00AM - 11:00AM
Program 2	9:00AM - 10:00AM
Program 3	9:30AM - 12:00PM

Recording Sequence

Program 1
10:00AM-11:00AM
Program 2
9:00AM-10:00AM
Program 3
9:30AM-12:00PM

9:00AM 10:00AM 11:00AM 12:00PM

Recording period is SHADED

---
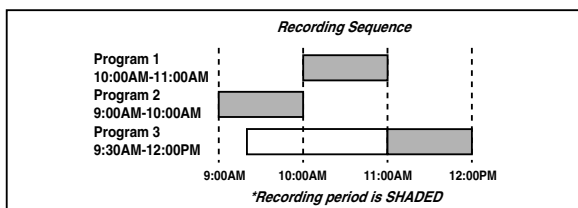
1 **Select "TIMER PROGRAMMING"**

Press the SETUP button on the remote control.
Confirm "TIMER PROGRAM-MING" is pointed by pressing the Arrow button ▲, then press the ENTER button.

```
- TV/VCR SETUP -
► TIMER PROGRAMMING
  SETTING CLOCK
  CHANNEL SET UP
  USER'S SET UP
  V-CHIP SET UP
  LANGUAGE [ENGLISH]
  CAPTION [OFF]
  ZERO RETURN
  TIME SEARCH
  INDEX SEARCH
```
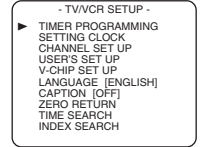
• If you have not yet set the clock, "MANUAL CLOCK SET" appears. If so, follow steps [3] to [8] on pages 15 and 16 before setting the timer recording.

---

2 **Select your desired program position (1 to 8)**

Press the Arrow button ▲ or ▼ to select the desired program position, then press the Arrow button ►.

```
– TIMER PROGRAMMING –
CH  DATE    BEGIN  END
--  -/--  --:--  --:--
--  -/--  --:--  --:--
--  -/--  --:--  --:--
--  -/--  --:--  --:--
--  -/--  --:--  --:--
--  -/--  --:--  --:--
--  -/--  --:--  --:--
```

---
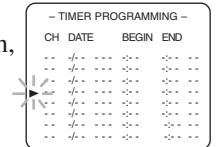
3 **Set the channel number**

Press the Arrow button ▲ or ▼ until the desired channel number appears (Example: CH61), then press the Arrow button ►.
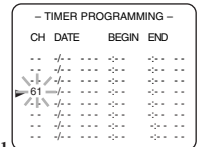
```
– TIMER PROGRAMMING –
CH  DATE    BEGIN  END
--  -/--  --:--  --:--
--  -/--  --:--  --:--
► 61  -/--  --:--  --:--
--  -/--  --:--  --:--
```

Remember: If the unit is connected to a cable box or satellite box, the unit must be on CH3 or CH4, then the channel to be recorded is selected on the cable box or satellite box.

---

4 **Select once, every day or weekly recording**

For once recording :
Press the Arrow button ▲ (up) until the desired date appears (Example: "7/04" for July 4th), then press the Arrow button ►.

```
– TIMER PROGRAMMING –
CH  DATE    BEGIN  END
--  -/--  --:--  --:--
--  -/--  --:--  --:--
► 61  7/04 SUN --:--  --:--
--  -/--  --:--  --:--
--  -/--  --:--  --:--
```
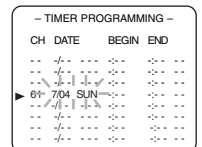
For every day recording : *To record a TV program at the same time on the same channel every day. (Example: Monday through Sunday)*

Press the Arrow button ▼ (down) until "EVRY DAY" appears, then press the Arrow button ►.

```
– TIMER PROGRAMMING –
CH  DATE    BEGIN  END
--  -/--  --:--  --:--
--  -/--  --:--  --:--
► 61 EVRY DAY --:--  --:--
--  -/--  --:--  --:--
```
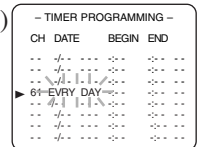
For weekly recording : *To record a TV program at the same time on the same channel every week. (Example: every Monday)*

Press the Arrow button ▼ (down) until "EVRY" and your desired day of the week appear together, then press the Arrow button ►.

```
– TIMER PROGRAMMING –
CH  DATE    BEGIN  END
--  -/--  --:--  --:--
--  -/--  --:--  --:--
► 61 EVRY MON --:--  --:--
--  -/--  --:--  --:--
```

5 Set beginning hour

Press the Arrow button ▲ or ▼ until the desired hour appears. (Example: " 7, PM" for **7**:30**PM**) Then press the Arrow button ▶.

```
– TIMER PROGRAMMING –
CH  DATE      BEGIN  END
..  -/-  ....  ..:..  ..:-- ..
..  -/-  ....  ..:..  ..:.. ..
► 61 7/04 SUN  7:12ᴾM  ..:-- ..
..  -/-  ....  ..:..  ..:-- ..
..  -/-  ....  ..:..  ..:.. ..
..  -/-  ....  ..:..  ..:.. ..
```

6 Set beginning minute

Press the Arrow button ▲ or ▼ until the desired minute appears. (Example: "30" for 7:**30**PM) Then press the Arrow button ▶.

```
– TIMER PROGRAMMING –
CH  DATE      BEGIN  END
..  -/-  ....  ..:..  ..:.. ..
..  -/-  ....  ..:..  ..:.. ..
► 61 7/04 SUN  7:30ᴾM  ..:-- ..
..  -/-  ....  ..:..  ..:.. ..
..  -/-  ....  ..:..  ..:.. ..
..  -/-  ....  ..:..  ..:.. ..
```

7 Set end hour

Press the Arrow button ▲ or ▼ until the desired hour appears. (Example: "8, PM" for **8**:50**PM**) Then press the Arrow button ▶.

```
– TIMER PROGRAMMING –
CH  DATE      BEGIN  END
..  -/-  ....  ..:..  ..:.. ..
..  -/-  ....  ..:..  ..:.. ..
► 61 7/04 SUN  7:30ᴾM  8:30ᴾM
..  -/-  ....  ..:..  ..:.. ..
..  -/-  ....  ..:..  ..:.. ..
..  -/-  ....  ..:..  ..:.. ..
```

8 Set end minute

Press the Arrow button ▲ or ▼ until the desired minute appears. (Example: "50" for 8:**50**PM) Then press the Arrow button ▶.

```
– TIMER PROGRAMMING –
CH  DATE      BEGIN  END
..  -/-  ....  ..:..  ..:.. ..
..  -/-  ....  ..:..  ..:.. ..
► 61 7/04 SUN  7:30ᴾM  8:50ᴾM
..  -/-  ....  ..:..  ..:.. ..
..  -/-  ....  ..:..  ..:.. ..
..  -/-  ....  ..:..  ..:.. ..
```
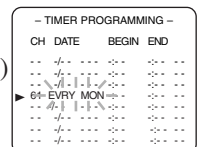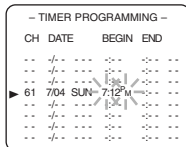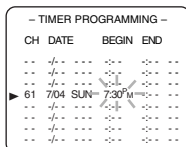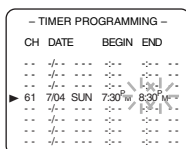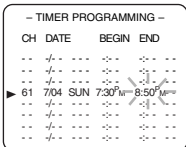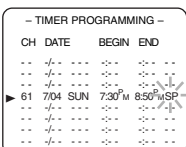
9 Set the tape speed

Press the Arrow button ▲ or ▼ until the desired tape speed appears. (Example: SP)

```
– TIMER PROGRAMMING –
CH  DATE      BEGIN  END
..  -/-  ....  ..:..  ..:.. ..
..  -/-  ....  ..:..  ..:.. ..
► 61 7/04 SUN  7:30ᴾM  8:50ᴾM SP
..  -/-  ....  ..:..  ..:.. ..
..  -/-  ....  ..:..  ..:.. ..
..  -/-  ....  ..:..  ..:.. ..
```

10 Finish setting the program

Press the ENTER or RETURN button. The program is now completed.

- **To set another program, repeat steps [2] to [10].**
- Press the SETUP button on the remote control to return to original mode.

11 Set the timer

Press the POWER button to set automatic timer recording. The Recording indicator illuminates.

- **You must turn off the unit to activate automatic timer recording.**

  If power is not turned off and you continue watching TV, "TIMER REC STANDBY" starts flashing on the TV screen for 2 minutes before the programmed start time.

TIMER PROGRAM EXTENSION

TV/VCR

To shift the time schedule of an automatic timer recording.

1) Press the POWER button.
2) Repeat step [1] on page 32.
3) Press the RECORD button and select the desired program using the Arrow button ▲ or ▼.
4) Press the RECORD button again.

   Each additional push will shift forward the begin/end time for recording by 10 minutes. When the recording is already in progress, each additional push will shift forward the end time only. If you want to cancel while setting, press the PAUSE button on the remote control. The recording time returns to the original time.

NOTE: When you shift forward the time schedule during recording, the recording speed will automatically be set to the SLP mode.

5) Press the ENTER or RETURN button to exit the setting menu. Then press the SETUP button on the remote control to return to original mode.

TO CORRECT A PROGRAM

- **While setting a program;** press the Arrow button ◀ to go back one step and enter the correct numbers using the Arrow button ▲ or ▼.
- **After setting a program;**
  1) Press the POWER button.
  2) Repeat steps [1] to [2] on page 32.
  3) Press the Arrow button ▶ (or press the Arrow button ◀ to go back one step) until the part you want to correct begins flashing, then make the changes pressing the Arrow button ▲ or ▼.
  4) Press the POWER button to set automatic timer recording.

TO CANCEL AN AUTOMATIC TIMER RECORDING

- **After setting a program;**
  1) Press the POWER button.
  2) Repeat steps [1] to [2] on page 32 and select a program you want to cancel.
  3) Press the C.RESET button.
  4) Press the SETUP button on the remote control to return to TV mode.
- **While recording is in progress;**
  1) Press the POWER button.
  2) Press the STOP/EJECT button on the unit.

TO CHECK THE BEGIN/END TIME

1) Press the POWER button so that the Recording indicator turns off.
2) Press the SETUP button on the remote control.
3) Confirm "TIMER PROGRAMMING" is pointed.
4) Press the ENTER button. The details of programs appear on the TV screen.
5) Press the SETUP button on the remote control to return to TV mode.

HINTS FOR AUTOMATIC TIMER RECORDING

TV/VCR

- Make sure the channel you want to record is properly set in advance.
- It is not necessary to press the RECORD button for timer recording.
- Recording begins automatically at the Start time.
- The display will not be turned on when the programmed recording begins. To watch the currently recorded TV program or to play a DVD disc, press the POWER button to turn on the display and use the SELECT button to choose the TV/VCR mode or the DVD mode.
- The erase-prevention tab on the cassette must be in place (or you must put tape over the hole).
- If the erase-prevention tab is removed, the cassette will be ejected when the POWER button is pressed to off.
- If the tape runs out before the end time, the unit will switch to the Stop mode immediately and the tape will be ejected.
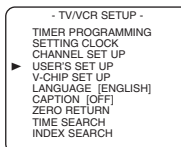
AUTO RETURN

TV/VCR

With this feature, after timer recording is finished, the beginning of the recorded program(s) can be searched for automatically.

1 **Select "USER'S SET UP"**

Press the SETUP button on the remote control.

Press the Arrow button ▲ or ▼ to point to "USER'S SET UP".
Then press the ENTER button.

```
- TV/VCR SETUP -
TIMER PROGRAMMING
SETTING CLOCK
CHANNEL SET UP
► USER'S SET UP
V-CHIP SET UP
LANGUAGE [ENGLISH]
CAPTION [OFF]
ZERO RETURN
TIME SEARCH
INDEX SEARCH
```

2 **Set "AUTO RETURN" to [ON]**

Press the Arrow button ▲ or ▼ to point to "AUTO RETURN".
Press the ENTER button until [ON] appears.

```
- USER'S SET UP -

RENTAL         [OFF]
REPEAT PLAY    [OFF]
► AUTO RETURN  [ON]
VCR AUDIO      [HIFI]
TV AUDIO       [STEREO]
```
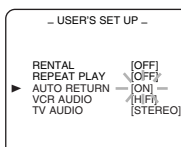
3 **Auto Return will begin**

When all the timer recordings are completed, the unit will rewind to the beginning of the recorded program(s).
NOTE:
- If you press the POWER button while tape is rewinding, the Auto Return will stop.

4 **Watch the recorded program**
Press the PLAY button.

TO CANCEL THE AUTO RETURN MODE

Repeat steps [1] to [2], select [OFF] using the ENTER button.

If there is a power failure of any kind, the unit will retain its memory for this feature.

SLEEP TIMER

TV/VCR

The Sleep Timer function turns off the unit without using the POWER button after a desired period of time.
NOTE:
- This function does not operate during Recording mode.

1 **Select "SLEEP TIMER"**

Press the SLEEP button on the remote control until "SLEEP TIMER" appears.

2 **Set sleep time**

Press the SLEEP button until your desired sleep time appears.
Each additional push will increase the time by 30 minutes up to 120 minutes.

```
SLEEP 120 MINUTES
```

After 5 seconds, the Sleep Timer setting will disappear automatically.

TO CANCEL THE SLEEP TIMER

Press the SLEEP button on the remote control until "SLEEP TIMER" appears. Press the SLEEP button until "SLEEP 0 MINUTES" appears.

ON SCREEN DISPLAY

To check the Counter, Clock and Channel number on the TV screen, press the DISPLAY button on the remote control. Each time you press the DISPLAY button on the remote control, the TV screen will change as follows:

When the Closed Caption mode is OFF:

- Counter mode: After 5 seconds, only the counter remains. To clear it, press the DISPLAY button.
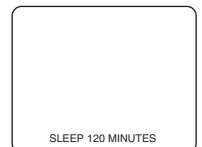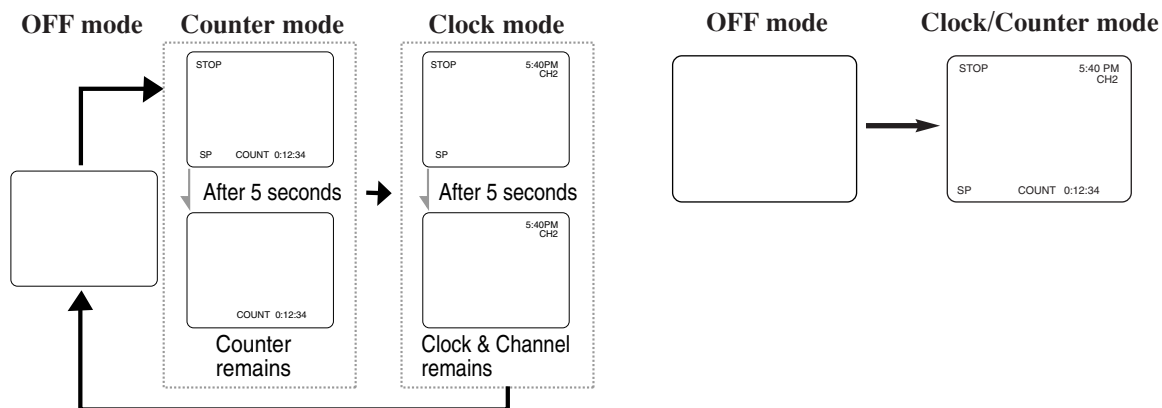- Clock mode: After 5 seconds, only the clock and the channel number remain. To clear them, press the DISPLAY button.

When the Closed Caption mode is ON:

- The On Screen Display will disappear after 5 seconds.
- This is true even if the MUTE button is pressed or the PAUSE button is pressed while recording.

CABLE CHANNEL DESIGNATIONS

If you subscribe to cable TV, the channels are displayed as 1-125. Cable companies often designate channels with letters or letter-number combinations. Please check with your local cable company. The following is a chart of common cable channel designations.

CATV channel	5A	2	3	4	5	6	7	8	9	10	11	12	13	A	B
TV Display	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CATV channel	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
TV Display	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
CATV channel	R	S	T	U	V	W	W+1	W+2	W+3	W+4	W+5	W+6	W+7	W+8	W+9
TV Display	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
CATV channel	W+10	W+11	W+12	W+13	W+14	W+15	W+16	W+17	W+18	W+19	W+20	W+21	W+22	W+23	W+24
TV Display	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CATV channel	W+25	W+26	W+27	W+28	W+29	W+30	W+31	W+32	W+33	W+34	W+35	W+36	W+37	W+38	W+39
TV Display	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
CATV channel	W+40	W+41	W+42	W+43	W+44	W+45	W+46	W+47	W+48	W+49	W+50	W+51	W+52	W+53	W+54
TV Display	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
CATV channel	W+55	W+56	W+57	W+58	A-5	A-4	A-3	A-2	A-1	W+59	W+60	W+61	W+62	W+63	W+64
TV Display	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
CATV channel	W+65	W+66	W+67	W+68	W+69	W+70	W+71	W+72	W+73	W+74	W+75	W+76	W+77	W+78	W+79
TV Display	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CATV channel	W+80	W+81	W+82	W+83	W+84										
TV Display	121	122	123	124	125										

ABOUT THE DISCS

PLAYABLE DISCS

The following discs can be played back on this unit.

- **DVD video**
- **DVD+R/RW***
- **CD-R/RW***
- **DVD-R/RW***
- **Audio CD**
- **MP3***

* Depending on the types or the writing method of the medium some discs can not be played.

- Some DVD-R/RW, DVD+R/RW or CD-R/RW discs made on personal computers or on DVD recorders may not be played back properly due to the factors such as scratches, dirt or special properties of the disc.
- Discs made on personal computers may not be played back properly due to the different environment or the settings of the application you use. We recommend always to use the standardized, rightly formatted discs. (Please contact the sales agency for more detail).

This unit conforms to the NTSC color system. You cannot play discs recorded in other color systems such as PAL or SECAM.

- Some discs include region codes as shown below.

- The number inside the symbol refers to a region of the world and a disc encoded in a specific region format can only be played back on a unit with the same region code.

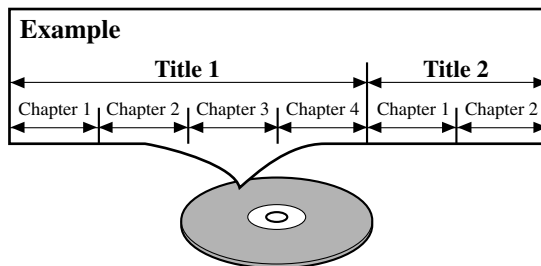**The following discs cannot be played back on this unit.**

- **DVD with region codes other than 1 or ALL**
- **DVD-ROM**
- **DVD-RAM (Never play back, otherwise malfunction may result.)**
- **CD-ROM**
- **VSD**
- **CDV (Only plays back the audio part)**
- **CD-G (Only plays back the sound)**
- **CD-I (Never play back, otherwise malfunction may result.)**
- **SACD**
- **Photo CD (Never play back, otherwise malfunction may result.)**
- **Video CD (Never play back, otherwise malfunction may result.)**
- **DTS-CD**

And any other discs without compatibility indications

DISC TYPES

[DVD]

Data on a DVD is divided into sections called "titles" and then into subsections called "chapters", each of which is given a title or chapter number. Playback conditions are preset on some DVD video discs and these playback conditions take priority over user operations on this unit. If a function you selected does not run as desired, refer to the manual accompanying the disc.

Example

| | Title 1 | | | | Title 2 | |
| Chapter 1 | Chapter 2 | Chapter 3 | Chapter 4 | Chapter 1 | Chapter 2 |

[AUDIO CD]

Data on an Audio CD is divided into sections called "tracks", each of which is given a track number.

Example

| Track 1 | Track 2 | Track 3 | Track 4 | Track 5 | Track 6 |
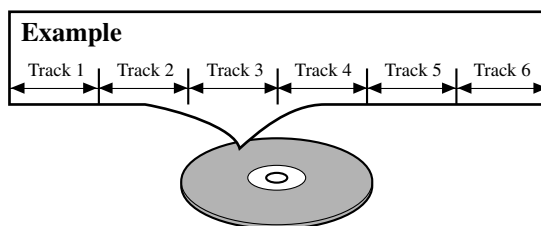
[MP3]

Data on an MP3 is divided into sections called "groups", and then into subsections called "tracks", each of which is given a group or track number.

Example

| | Group 1 | | | Group 2 | |
| Track 1 | Track 2 | Track 3 | Track 4 | Track 5 | Track 6 |
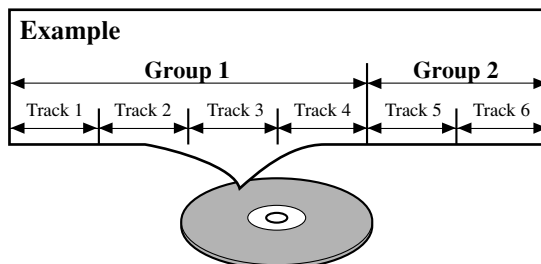
PLAYING A DISC

BASIC PLAYBACK

DVD-V	CD	MP3

Getting started
● Turn on the power of amplifier and any other components, if necessary.

1 Press the POWER button.
● The power will turn on.

2 Press the OPEN/CLOSE button to open disc loading tray.

3 Place the chosen disc in the tray, with the label facing up.
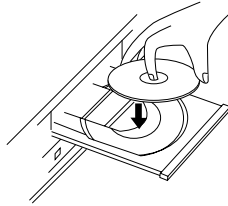
4 Press the PLAY button.
● The tray will close automatically and playback will then start from the first chapter or track of the disc. If the playback does not start automatically, press the PLAY button.
● When you playback a DVD which features a title menu, it may appear on the screen. In this case, refer to "TITLE MENU".

5 Press the STOP button to stop playback.

NOTES:
● When the DVD mode has been switched to the TV/VCR mode, the DVD mode shuts down first and then the TV picture and sound appears in about 4 seconds. Similarly, when the POWER button is pressed to turn off in the DVD mode, this mode shuts down first and then the unit's power is turned off.
● A "prohibited icon" may appear at the top-right on the TV screen during operation, warning that a prohibited operation has been encountered by the DVD or the disc.
● With DVDs that use titles for playback program signals, playback may start from the second title or it may skip these titles.
● During the playback of a two layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.

GENERAL FEATURES

DVD-V

DVD may contain menus to navigate the disc and access special features. Press the appropriate number buttons or use the Arrow button (▲/▼/◄/►) to highlight your selection in the DVD main menu and press the ENTER button to confirm.
NOTES:
● Select DVD mode by pressing the SELECT button on the remote control. Then operate the DVD functions.
● Unless stated, all operations described are based on remote control use. Some operations can be carried out using the menu bar on the TV screen.

DISC MENU

DVD-V

1 Press the DISC MENU button.
● The DVD main menu will appear.

2 If the feature is not available, ⃠ symbol may appear on the TV screen.

3 If disc menu is available on the disc, audio language, subtitle options, chapters for the title and other options will appear for selection.

4 Press the Arrow button (▲/▼/◄/►) to select an item and the ENTER button to confirm selection.

TITLE MENU

DVD-V

1 Press the TITLE button.
● The title menu will appear.

2 If the feature is not available, ⃠ symbol may appear on the TV screen.

3 Press the Arrow button (▲/▼/◄/►) to select an item and the ENTER button to confirm selection.

CALLING UP A MENU SCREEN DURING PLAYBACK
● Press the DISC MENU button to call up the DVD menu.
● Press the TITLE button to call up the title menu.
NOTE:
● Contents of menus and corresponding menu operations may vary between discs. Refer to the manual accompanying the disc for details.

RESUME

| DVD-V | CD | MP3 |

1 During playback, press the STOP button.
● Resume message will appear on the TV screen.

2 Press the PLAY button, playback will resume from the point at which playback was stopped.

● To cancel resume, press the STOP button twice.
● If the unit is turned off, resume function will be cancelled.
● For MP3, playback will resume from the beginning of the track at which playback was stopped.

PAUSE

| DVD-V | CD | MP3 |

1 During playback, press the PAUSE button.
● Playback will pause and sound will be muted.

2 To continue playback, press the PLAY button.

STEP BY STEP PLAYBACK

| DVD-V |

1 During playback, press the PAUSE button.
● Playback will pause and sound will be muted.

2 The disc goes forward by one frame each time the PAUSE button is pressed.

3 To exit step by step playback, press the PLAY button.

FAST FORWARD/REVERSE SEARCH

| DVD-V | CD | MP3 |

1 During playback, press and hold the SEARCH button ◄◄ or ►► for a few seconds.

● " ►► 1" or "◄◄ 1" appears on the screen.

2 To select another speed, repeat step [1] until your required speed appears on the screen.

● For DVDs, fast forward/reverse search speed is different depending on the disc. Approximate speed is 1 (×2), 2 (×8), 3 (×50) and 4 (×100).
● For audio CDs, approximate speed is ×16.
● For MP3, approximate speed is ×8.
● When you use buttons on the front panel, use the SKIP ►►|/ SEARCH ►► or SKIP |◄◄/ SEARCH ◄◄ button.

3 To return to normal playback, press the PLAY button.

SLOW FORWARD / SLOW REVERSE

| DVD-V |

1 During playback, press the PAUSE button.

2 Press and hold the SEARCH button ◄◄ or ►► for a few seconds.

● "|► 1" or " ◄| 1" appears on the screen.

3 To select another speed, repeat step [2] until your required speed appears on the screen.

● Slow forward or reverse speed varies with the disc. Approximate speed is 1 (1/16), 2 (1/8) and 3 (1/2).
● When you use buttons on the front panel, use the SKIP ►►|/ SEARCH ►► or SKIP |◄◄/ SEARCH ◄◄ button.

4 To return to normal playback, press the PLAY button.

SEARCH FUNCTION

TRACK SEARCH

| CD | MP3 |

There are three ways to begin playback on an Audio CD and MP3 at a specific track.

Using the Number buttons on the remote control

1 **Press the Number buttons to enter the desired Track number.**

● Playback will start at the selected track.
● For single digit tracks (1-9), press a single number (eg. track 3, press 3).
● To play track 26, press +10, 2, 6.

Using the SEARCH MODE button

1 **Press the SEARCH MODE button.**

● The track search display appears.

2 **Within 30 seconds, select a desired track number using the Number buttons on the remote control.**

● For single digits press 0 first, if the total track of the disc is more than 10.
● Playback will start at the selected track.

Using the SKIP |◀◀ ▶▶| buttons

During playback, press the SKIP ▶▶| button to move the next track. Press it repeatedly to skip subsequent tracks. Press the SKIP |◀◀ button to go back to beginning of the current track. Press it repeatedly to go to the previous tracks.

● If the SKIP button is pressed while the playback is paused, the playback will be paused again after skipping to the next track.
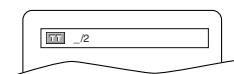
NOTE:
● The SKIP |◀◀ ▶▶| buttons are not available when playback is stopped.

TITLE / CHAPTER SEARCH

| DVD-V |

1 **Press the SEARCH MODE button once for the Chapter search, twice for the Title search during playback.**

```
┌─────────────────────┐
│  ▯▯  _/2            │
└─────────────────────┘
```

2 **Enter the desired chapter/title number using the Number buttons on the remote control.**

● Playback will start at the selected chapter or title.
● Press the CLEAR button to erase the incorrect input.
● For single digits press 0 first, if the total chapter or title of the disc is more than 10.

TIME SEARCH

| DVD-V | CD |

1 **During playback press the SEARCH MODE button three times (CD: twice) to display the Time Search on the TV screen.**

2 **Within 30 seconds, enter a desired disc time using the Number buttons on the remote control.**

● Playback will start at the specified time.
● Press the CLEAR button to erase the incorrect input.
● When there is no need to enter a number, "0" appears automatically. For example, " 0 : 0 _ : _ _" appears in the Time Search display if the total time of the track or title is less than 10 minutes.

MARKER SETUP SCREEN

| DVD-V | CD |

Use markers to memorize your favorite places on a disc.

1 **Press the SEARCH MODE button four times (CD: three times) during playback.**

● The display screen and Markers will appear on the TV screen.

2 **Press the Arrow button (◀/▶) to select 1, 2, 3, 4, 5, 6, 7, 8, 9 or 10 and ensure that "_ _ _ _ : _ _ : _ _" appears in the display.**

3 **When you reach the desired point press the ENTER button.**

● The Title or Track and elapsed playing time will appear in the TV screen.

4 **To return to the Marker later, press the SEARCH MODE button four times (CD: three times) during playback and the Arrow button (◀/▶) to choose the desired marker then press the ENTER button.**

NOTES:
● Opening the disc tray, turning off the power, pressing the SELECT button or selecting AC at step [2] and press the ENTER button will erase all Markers.
● To clear a marker using the Arrow button ◀ or ▶, position the cursor on to the marker number to be cleared and press the CLEAR button.
● You can mark up to 10 points.

5 **Press the SEARCH MODE or RETURN button to exit.**
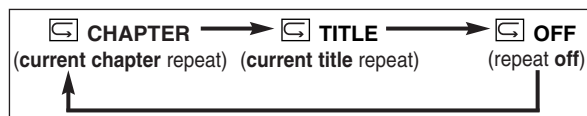
SPECIAL PLAYBACK FUNCTION

REPEAT

REPEAT is available only during playback.

REPEAT TITLE / CHAPTER

DVD-V

To activate the repeat function press the REPEAT button during playback.

● The repeat mode changes as described below every time you press the button.

↻ CHAPTER	→	↻ TITLE	→	↻ OFF
(**current chapter** repeat)		(**current title** repeat)		(repeat **off**)

NOTES:
● Repeat Title/Chapter is not available with some scenes.
● The REPEAT setting will be cleared when moving to other title or chapter.

REPEAT TRACK/ALL

CD

To activate the repeat function press the REPEAT button during playback.

● The repeat mode changes as described below every time you press the button.

↻ TRACK	→	↻ ALL	→	↻ OFF
(**current track** repeat)		(**entire disc** repeat)		(repeat **off**)

NOTES:
● Repeat setting will be cleared when moving to other track.
● Repeat playback does not function during repeat A-B playback.

REPEAT A-B

DVD-V CD

1 Press the REPEAT A-B button at your chosen starting point.

● "↻ A-" appears briefly on the TV screen.

2 Press the REPEAT A-B button again at your chosen end point.

● "↻ A-B" appears briefly on the TV screen and the repeat sequence begins.

3 To exit the sequence, press the REPEAT A-B button.

NOTES:
● The repeat A-B section can only be set within the current title (for DVDs) or current track (for Audio CDs).
● Repeat A-B is not available with some scenes in DVD.
● To cancel the A point which was set, press the CLEAR button.
● Repeat A-B playback does not function during title, chapter, track or all repeat playback.
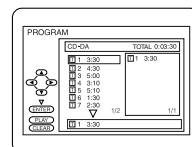
PROGRAM

CD

You may determine the order in which tracks will play.

1 In stop mode, press the MODE button.

● The PROGRAM screen will appear.

2 Press the Arrow button (▲/▼) to select a track, then press the ENTER button.

● Press the CLEAR button to erase the most recently entered program.

3 Repeat step [2] until you have selected all the tracks you want to play in the program.

4 Press the PLAY button to play the programmed tracks.

NOTES:
● While the program is being played back, the STOP works as follows.
● Press the STOP button once and then the PLAY button again, playback will restart from the point where the STOP button was pressed. (Program continued)
● Press the STOP button twice and then the PLAY button again, playback will restart from the track in the usual way. (Program canceled)
● Up to 99 programs can be entered.
● To erase all tracks in the program at once, select ALL CLEAR at the bottom of the list at Step [2].
● If you like to repeat the current track in the program, press the REPEAT button repeatedly until "↻ TRACK" appears during playback. If you like to repeat the entire program press the REPEAT button repeatedly until "↻ ALL" appears during playback.

RANDOM PLAYBACK

CD

This shuffles the playing order of tracks instead of playback in the sequence.

1 In stop mode, press the MODE button twice.

● RANDOM screen appears.

2 Press the PLAY button to start random playback.

NOTE:
● If you like to repeat the current track in the random selection, press the REPEAT button repeatedly until "↻ TRACK" appears during playback. If you like to repeat the entire random selection press the REPEAT button repeatedly until "↻ ALL" appears during playback.
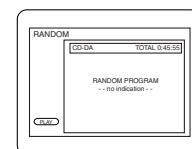
PLAYING A MP3 DISC

MP3 PLAYBACK

MP3

When a CD with MP3 files is in the unit, press the DISC MENU button to call up the MP3 menu on the TV screen.

1 In stop mode, press the Arrow button (▲/▼) to select the desired group or track.

● If a group is selected press the Arrow ► or ENTER button to go on to the track selection screen. Press the Arrow button (▲/▼) to choose a track, then press the ENTER button.

```
FILE LIST
█ FOLDER   DISC NAME
█ MP3       █ folder name 1
            █ folder name 2
            █ folder name 3
            █ folder name 4
            █ file name 1
   ENTER    █ file name 2
            █ file name 3
   PLAY       ▽          1/2
            █ folder name 1
```

● If a track is selected, press the ENTER button to start playing tracks. Starting from the one you've just chosen the subsequent tracks will be played.
● Press the TITLE button to return to the first item.
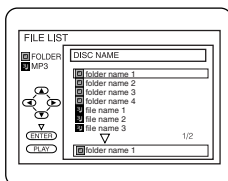
2 Press the STOP button to stop playback.

NOTES:
● Folders are known as Groups; files are known as Tracks.
● MP3 files are accompanied by ♩ icon.
● Maximum of 255 folders can be recognized.
● Maximum of 512 files can be recognized.
● Up to 8 hierarchies can be created.
This unit recommends the use of files recorded at the below specifications:
● Sampling frequency: 44.1kHz or 48kHz
● Constant bit rate: 112kbps ~ 320kbps.

REPEAT

MP3

REPEAT is available only during playback.

To activate the repeat function, press the REPEAT button during playback.

● The repeat mode changes as described below every time you press the button.

```
↻ TRACK  →  ↻ GROUP  →  ↻ ALL  →  ↻ OFF
(current track   (current group   (entire disc   (repeat off)
repeat)          repeat)          repeat)
```

NOTE:
● Repeat setting will be cleared when moving to other track.

PROGRAM

MP3

This feature allows you to program an MP3 disc to play in a desired sequence.

1 In stop mode, press the MODE button.
● The PROGRAM screen will appear.

2 Select a desired track using the Arrow button (▲/▼/◄/►). Then press the ENTER button.

● Press the Arrow button ► when you want to go to the next hierarchy.
● Press the Arrow button ◄ when you want to go back to the previous hierarchy.
● Press the CLEAR button to erase the most recently entered program.

3 Repeat step [2] until you have selected all the Tracks you want to play in the program.

4 Press the PLAY button to start programmed playback.

NOTES:
● While the program is being played back, the STOP button works as follows.
● Press the STOP button once and then the PLAY button again, playback will restart from the beginning of the track. (Program continued)
● Press the STOP button twice and then the PLAY button again, playback will restart from the track in the usual way. (Program canceled)
● To erase all tracks in the program at once, select ALL CLEAR at the bottom of the list at Step [2].

RANDOM PLAYBACK

MP3

1 In stop mode, press the MODE button twice.
● RANDOM screen appears.

2 Press the PLAY button to start random playback.

CHANGING THE SETTINGS

SUBTITLE LANGUAGE

DVD-V

The unit allows you to select a language for subtitles during DVD disc (if available) playback.

1 Press the SUBTITLE button during playback.

2 Press the SUBTITLE button repeatedly to select your desired subtitle language.

● The subtitle language will appear on the display bar at the top of the TV screen.

3 To turn off subtitles, press the SUBTITLE button repeatedly until "OFF" appears.

NOTES:
● Some discs allow audio language setting/subtitle language setting on the disc menu. (Operation varies between discs, so refer to the manual accompanying the disc.)
● If the desired language is not shown after pressing the SUBTITLE button several times, the disc does not have subtitles in that language.
● If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Subtitle language setting. If you choose any other languages, '---' will be displayed instead. (Refer to page 44.)

AUDIO LANGUAGE

DVD-V

The unit allows you to select a language during DVD disc (if multi languages are available) playback.

1 Press the AUDIO button during playback.

2 Press the AUDIO button repeatedly to select your desired language.

NOTE:
● Pressing the AUDIO button may not work on some DVDs with multiple audio languages (e.g. DVDs which allow audio language setting on the disc menu).

STEREO SOUND MODE

CD

1 Press the AUDIO button repeatedly during playback to select between STEREO, L-CH or R-CH.

● STEREO - both right and left channels are active (stereo)
  L-CH - only left channel is active
  R-CH - only right channel is active

NOTE:
● If the Virtual Surround setting is ON, the sound mode will be fixed to STEREO and can not be changed.

CAMERA ANGLE

DVD-V

Some DVD discs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the (📷) icon appears on the screen.
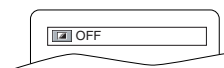
1 Press the ANGLE button during playback.

● The selected angle will be displayed on the display bar at the top of the screen.

2 Press the ANGLE button repeatedly to select your desired angle.

BLACK LEVEL SETTING

DVD-V

Adjust the Black Level Settings to make the black parts of the picture brighter.

1 Press the MODE button during playback.

> 🔲 OFF

2 Press the ENTER button to switch OFF.

ON: Makes the dark parts brighter.
OFF: Shows the original picture as recorded.

3 Press the MODE button twice or the RETURN button to exit.

NOTE:
● The setting will be saved even if the unit is turned off.

VIRTUAL SURROUND

DVD-V **CD** **MP3**

You can enjoy surround-sound effect over two speakers on this unit.

1 Press the V.SURR button once or the MODE button twice (CD/MP3: once) during playback.

> 🔲 OFF
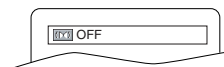
2 Press the ENTER button to set it 1 (Natural effect) or 2 (Emphasized effect) or OFF.

3 Press the V. SURR or RETURN button to exit.

NOTE (for CD play only):
● Virtual Surround will not be effective if the sound mode is set to something other than STEREO.
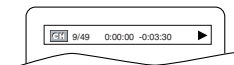
THE ON-SCREEN INFORMATION

$$\boxed{\text{DVD-V}} \quad \boxed{\text{CD}} \quad \boxed{\text{MP3}}$$

You can check the information about the current disc by pressing the DISPLAY button on the remote control.

For DVD-Vs

1 **Press the DISPLAY button during playback to show current Chapter.**

● The elapsed and remaining playing time of the current chapter will be displayed.

2 **Press the DISPLAY button again to show current Title.**

● The elapsed and remaining playing time of the current title will be displayed.

3 **Press the DISPLAY button again.**

● The BIT RATE and the current repeat setting will be displayed.
● If you are playing a dual layered disc, the layer number will also be displayed (L0: Layer 0 is playing. L1: Layer 1 is playing).

4 **Press the DISPLAY button again to exit the display.**

For Audio CDs

1 **Press the DISPLAY button during playback to show the current Track.**

● The elapsed and remaining playing time of the current track will be displayed.

2 **Press the DISPLAY button again to show current Total Track.**

● The elapsed and remaining playing time of the total track will be displayed.

3 **Press the DISPLAY button again to exit the display.**

For MP3

1 **Press the DISPLAY button during playback.**

● The name of the file currently in play will be displayed.

2 **Press the DISPLAY button again to show the track number, the elapsed time, the repeat status and the playback status at the top of the screen.**

● ⟳ will be displayed when repeat play has been selected.

⟳ T - indicates Track repeat

⟳ G - indicates Group (folder) repeat

⟳ A - indicates Disc repeat

3 **Press the DISPLAY button again to exit the display.**

CHANGING THE DVD SETUP ITEMS

LANGUAGE SETTING

DVD-V

Language options are not available with some discs.

1 **Press the SETUP button twice in STOP mode so that the DVD SETUP menu appears.**

● If the menu does not appear, press the PLAY button and the STOP button then the SETUP button twice.

```
SETUP  ┌────────┐
       │        │
 ┌─────┴──┐     │
 │QUICK   │     │
 │CUSTOM  │     │
 │INITIALIZE    │
```
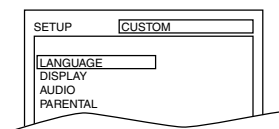
2 **Press the Arrow button ▼ to select CUS-TOM, then press the ENTER button.**

● CUSTOM mode will appear.

3 **Press the Arrow button (▲/▼) to select "LANGUAGE", then press the ENTER button to confirm.**

```
SETUP   ┌CUSTOM──┐
        │        │
 ┌──────┴──┐     │
 │LANGUAGE │     │
 │DISPLAY  │     │
 │AUDIO    │     │
 │PARENTAL │     │
```

4 **Press the Arrow button (▲/▼) to select the next items, then press the ENTER button.**

AUDIO: Sets the audio language.
SUBTITLE: Sets the subtitle language.
DISC MENU: Sets the language for DVD menu.

5 **Press the Arrow button (▲/▼) to select a setting, then press the ENTER button.**

● If OTHER is selected on the AUDIO, SUBTITLE or DISC MENU screen, press four-digit number to enter the code for the desired language (Refer to the language code list).
● Only the languages supported by the disc can be selected.

6 **Press the SETUP button to exit.**

NOTE:
● Language Setting for Audio and Subtitle is not available with some discs. Then use the AUDIO and the SUBTITLE buttons (Details are on page 42).

TO CHANGE THE ON-SCREEN MENUS
You can access the TV/VCR SETUP menu by pressing the SETUP button from the DVD mode. Refer to SELECTING THE LANGUAGE on page 15 for changing the on-screen menus.

Language	Code	Language	Code
A–B		**L–N**	
Abkhazian	4748	Laothian	5861
Afar	4747	Latin	5847
Afrikaans	4752	Latvian;Lettish	5868
Albanian	6563	Lingala	5860
Amharic	4759	Lithuanian	5866
Arabic	4764	Macedonian	5957
Armenian	5471	Malagasy	5953
Assamese	4765	Malay	5965
Aymara	4771	Malayalam	5958
Azerbaijani	4772	Maltese	5966
Bashkir	4847	Maori	5955
Basque	5167	Marathi	5964
Bengali;Bangla	4860	Moldavian	5961
Bhutani	5072	Mongolian	5960
Bihari	4854	Nauru	6047
Bislama	4855	Nepali	6051
Breton	4864	Norwegian [NOR]	6061
Bulgarian	4853	**O–R**	
Burmese	5971	Occitan	6149
Byelorussian	4851	Oriya	6164
C–E		Oromo(Afan)	6159
Cambodian	5759	Panjabi	6247
Catalan	4947	Pashto;Pushto	6265
Chinese [CHI]	7254	Persian	5247
Corsican	4961	Polish	6258
Croatian	5464	Portuguese [POR]	6266
Czech	4965	Quechua	6367
Danish [DAN]	5047	Rhaeto-Romance	6459
Dutch [DUT]	6058	Romanian [RUM]	6461
English [ENG]	5160	Russian [RUS]	6467
Esperanto	5161	**S**	
Estonian	5166	Samoan	6559
F–H		Sangho	6553
Faroese	5261	Sanskrit	6547
Fiji	5256	Scots Gaelic	5350
Finnish [FIN]	5255	Serbian	6564
French [FRE]	5264	Serbo-Croatian	6554
Frisian	5271	Sesotho	6566
Galician	5358	Setswana	6660
Georgian	5747	Shona	6560
German [GER]	5051	Sindhi	6550
Greek [GRE]	5158	Singhalese	6555
Greenlandic	5758	Siswat	6565
Guarani	5360	Slovak	6557
Gujarati	5367	Slovenian	6558
Hausa	5447	Somali	6561
Hebrew	5569	Spanish [SPA]	5165
Hindi	5455	Sundanese	6567
Hungarian [HUN]	5467	Swahili	6569
I–K		Swedish [SWE]	6568
Icelandic [ICE]	5565	**T**	
Indonesian	5560	Tagalog	6658
Interlingua	5547	Tajik	6653
Interlingue	5551	Tamil	6647
Inupiak	5557	Tatar	6666
Irish [IRI]	5347	Telugu	6651
Italian [ITA]	5566	Thai	6654
Japanese [JPN]	5647	Tibetan	4861
Javanese	5669	Tigrinya	6655
Kannada	5760	Tonga	6661
Kashmiri	5765	Tsonga	6665
Kazakh	5757	Turkish [TUR]	6664
Kinyarwanda	6469	Turkmen	6657
Kirghiz	5771	Twi	6669
Kirundi	6460	**U–Z**	
Korean [KOR]	5761	Ukrainian	6757
Kurdish	5767	Urdu	6764
		Uzbek	6772
		Vietnamese	6855
		Volapuk	6861
		Welsh	4971
		Wolof	6961
		Xhosa	7054
		Yiddish	5655
		Yoruba	7161
		Zulu	7267

If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Audio or Subtitle language setting on page 42. If you choose any other languages, '---' will be displayed instead. (3 letter language code is written in bracket.)
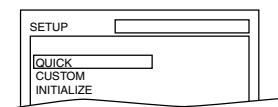
DISPLAY SETTING

<div align="right">

DVD-V

</div>

You can change certain aspects of the DVD display screens and on-screen messages on the TV screen.

___

**1** **Press the SETUP button twice in STOP mode so that the DVD SETUP menu appears.**

● If the menu does not appear, press the PLAY button and the STOP button then the SETUP button twice.

```
SETUP     [        ]

QUICK
CUSTOM
INITIALIZE
```

___

2 **Press the Arrow button ▼ to select "CUS-TOM", then press the ENTER button.**

● CUSTOM mode will appear.

___

3 **Press the Arrow button (▲/▼) to select "DIS-PLAY", then press the ENTER button to confirm.**

```
SETUP     [CUSTOM  ]

LANGUAGE
DISPLAY
AUDIO
PARENTAL
```

___
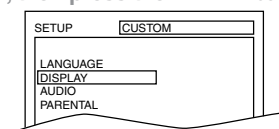
4 **Press the Arrow button (▲/▼) to select the below items, then press the ENTER button.**

TV MODE: QUICK

● Press the Arrow button (▲/▼) for an item selection, then press the ENTER button.
● Select 4:3 LETTER BOX for black bars to appear on top and bottom of the screen.
● Select 4:3 PAN & SCAN for a full height picture with both sides trimmed.
● The default setting is 4:3 LETTER BOX.

STILL MODE:

● Press the Arrow button (▲/▼) for an item selection, then press the ENTER button.
● Select "AUTO" usually.
● If you select "FIELD", the picture in the still mode will be stabilized.
● If you select "FRAME", the picture in the still mode will be highly defined.

ANGLE ICON:

● Press the ENTER button repeatedly to turn Angle icon ON or OFF.
● The default setting is ON.

AUTO POWER OFF:

● Press the ENTER button repeatedly to turn Auto Power off ON or OFF.
● The default setting is ON and the screen saver program starts when there is no input signal to the unit for 5 minutes in the stop mode. When the screen saver program is activated for 15 minutes, the power automatically turns off.

___

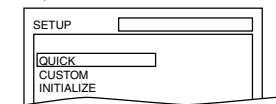**5** **Press the SETUP button to exit.**

AUDIO SETTINGS

<div align="right">

MP3

</div>

Choose the appropriate Audio settings for your equipment as it only affects during the playback of DVD discs.

___

1 **Press the SETUP button twice in STOP mode so that the DVD SETUP menu appears.**
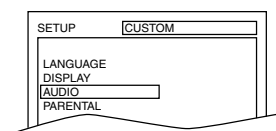
● If the menu does not appear, press the PLAY button, the STOP button, then the SETUP button twice.

```
SETUP     [        ]

QUICK
CUSTOM
INITIALIZE
```

___

2 **Press the Arrow button ▼ to select "CUS-TOM", then press the ENTER button.**

● CUSTOM mode will appear.

___

3 **Press the Arrow button (▲/▼) to select "AUDIO", then press the ENTER button to confirm.**

```
SETUP     [CUSTOM  ]

LANGUAGE
DISPLAY
AUDIO
PARENTAL
```

___

4 **Press the Arrow button (▲/▼) to select the below items, then press the ENTER buttons.**

DRC (Dynamic Range Control):

● To compress the range of soft to loud sound.
● The default setting is ON.

DOWN SAMPLING:

● Set to ON when outputting in 48 kHz.
● The default setting is ON.
When playing disc with copyright Protection
● If you select OFF, copyright protection will be activated and sound will be down sampled at 48kHz.

DOLBY DIGITAL: QUICK

Set to On when the unit is connected to a Dolby Digital Decoder.
ON: Output a Dolby Digital signal
OFF: Convert the Dolby Digital to PCM (2 channel stereo)
● The default setting is ON.

___

5 **Press the SETUP button to exit.**

PARENTAL CONTROL

DVD-V

Parental Control limits the disc viewing that exceed your settings (with a password or playback will stop). This feature allows you to prevent discs with alternative scenes from being played by your children.
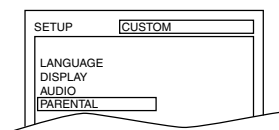
PARENTAL LEVEL

Parental Level allows you to set the rating level of your DVD discs. Playback will stop if the disc's ratings exceed the level you set.

1 **Press the SETUP button twice in STOP mode so that the QUICK SETUP menu appears.**

● If the menu does not appear, press the PLAY button, the STOP button, then the SETUP button twice.

2 **Press the Arrow button ▼ to select "CUSTOM", then press the ENTER button.**

```
SETUP    [          ]

QUICK
CUSTOM
INITIALIZE
```

3 **Press the Arrow button (▲/▼) to select "PARENTAL", then press the ENTER button.**

```
SETUP    CUSTOM

LANGUAGE
DISPLAY
AUDIO
PARENTAL
```

4 **Enter your four-digit password then press the ENTER button.**

5 **Press the Arrow button (▲/▼) to select "PARENTAL LEVEL", then press the ENTER button.**

6 **Press the Arrow button (▲/▼) to select the desired level, then press the ENTER button.**

7 **Press the SETUP button to exit**

NOTES:
● When doing this for the first time, enter any 4 digits. (except for 4737) That number will be used as the password.(in the event you forget the password, see below)
● To change the password, press the Arrow button (▲ / ▼) to select CHANGE at step [5], then press the ENTER button. Enter the four-digit password, then press the ENTER button.
● With some DVDs, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
● Record the password in case you forget it.

CONTROL LEVELS

● **ALL**
All parental lock is cancelled.
● **Level 8**
DVD software of any grade (adult/general/children) can be played back.
● **Levels 7 to 2**
Only DVD software intended for general use and children can be played back.
● **Level 1**
Only DVD software intended for children can be played back, with those intended for adult and general use is prohibited.

IF YOU FORGET THE PASSWORD

1 **Press the number buttons 4, 7, 3, 7 at step [4], then enter your new password.**
● Password will be cleared and parental level will be set to ALL.

2 **Proceed the Steps [5] to [7] again.**

INITIALIZE

This allows you to return all selections of SETUP (except for PARENTAL) to their default settings.

1 **Press the SETUP button twice in STOP mode so that the INITIALIZE menu appears.**

2 **Press the Arrow button (▲/▼) to select "INITIALIZE", then press the ENTER button.**

3 **Select "YES", then press the ENTER button twice. All the settings (except for "PARENTAL") will be cleared.**

● To cancel the initialization, select "NO".

4 **Press the SETUP button to exit.**

TROUBLESHOOTING GUIDE

If the unit does not perform properly when operated as instructed in this Owner's Manual, check the unit, consulting the following checklist.

PROBLEM	CORRECTIVE ACTION
No power	• Make sure the power plug is connected to an AC outlet. • Make sure the power is turned on.
The unit does not respond to the remote control	• Check if the power plug is connected to an AC outlet. • Check the batteries in the remote control. • Aim the remote control directly at the remote sensor. If necessary, remove all the obstacles between the sensor and the remote. • You have to be within 23 feet of the unit. • Check if the correct mode is selected. If not switch the mode by pressing the SELECT button on the remote control, whichever you need.

TV/VCR Mode

Sometimes a performance problem can be easily solved by checking seemingly apparent but often overlooked possibilities. Before arranging for service, check these items. It could save your time and money.

PROBLEM	CORRECTIVE ACTION
No picture and sound	• Make sure the AC cord is connected to an AC outlet. • Check antenna connection. • Press the SELECT button on the remote control to select TV mode. Then try other TV feature. • Let the unit program its tuner memory.
No picture or poor picture on the unit	• Adjust direction or replace antenna. • Adjust picture controls.
No sound or poor sound	• Adjust volume control on remote control or main unit. • Press the MUTE button to restore sound.
Bars On Screen	• If outside antenna is being used, check for broken wire. • Check for local interference.
Picture Distorted or Blurred	• Try a new channel, if OK, then possible station trouble. • If outside antenna is being used, check for broken wire.
Picture Rolls Vertically Lines or Streaks in Picture	• Try a new channel, if OK, then possible station trouble. • If outside antenna is being used, check for broken wire. • Check for local interference.
No Color	• Try a new channel, if OK, then possible station trouble. • Is antenna connected to terminal on the back of the set? • If outside antenna is being used, check for broken wire. • Adjust COLOR control.
Poor Reception on Some Channels Ghosts in Picture	• Try a new channel, if OK, then possible station trouble. • Is antenna connected to terminal on the back of the set? • If outside antenna is being used, check for broken wire. • Check for local interference.
Weak Picture	• Try a new channel, if OK, then possible station trouble. • Is antenna connected to terminal on the back of the set? • If outside antenna is being used, check for broken wire. • Adjust CONTRAST & BRIGHT control.
Sound OK, Picture Poor	• Try a new channel, if OK, then possible station trouble. • Is antenna connected to terminal on the back of the set? • If outside antenna is being used, check for broken wire. • Check for local interference. • Adjust CONTRAST & BRIGHT control.

PROBLEM	CORRECTIVE ACTION
Picture OK, Sound Poor	• Try a new channel, if OK, then possible station trouble. • Check for local interference.
Timer recording is not possible	• Make sure the timer recording is set correctly. • Make sure the power is off. • Make sure the clock of the unit is set correctly.
Cannot go into Record mode	• Make sure the tape has an erase-prevention tab. If need, cover the hole with plastic tape.
Playback picture is partially noisy	• Adjust tracking control for a better picture using the CHANNEL button ▲ or ▼ on the unit.
No picture but the audio is OK in playback	• Head cleaning may be necessary. Refer to "AUTO HEAD CLEANING" on page 50.
No operation by infrared Remote Control	• Make sure the AC cord is connected to an AC outlet. • Check batteries in remote control.
Video or color fades in and out when making a copy of a video tape	• You can not copy a copyrighted video tape. You are experiencing copy guard protection.
Different color marks on screen	• Magnetism from nearby appliances and geomagnetism might affect the color of the TV picture. Move the unit away from the appliances, the unit can repair itself automatically. If you want to repair immediately, unplug the power cord, then plug it in again 30 minutes later or so. This automatically resets the unit.

CLOSED CAPTION PROBLEM	POSSIBLE REMEDY
My unit is showing captions that are misspelled.	• You are watching a live broadcast and spelling errors made by the closed captioning production company may pass through uncorrected. A prerecorded program will not show any misspelled words because of the normal time available for editing the captions.
My unit will not show the text dialogue in its entirety or there is a delay of what is being said.	• Captions that are delayed a few seconds behind the actual are common for live broadcast. Most captioning production companies can display a dialogue to a maximum of 220 words per minute. If a dialogue exceeds that rate, selective editing is used to insure that the captions remain up-to-date with the current TV screen dialogue.
My captions are scrambled with white boxes on the TV screen.	• Interference caused by building, power lines, thunderstorms, etc. may cause scrambled or incomplete captions to appear.
My program guide listed a TV show as being closed captioned but none of the captions were displayed.	• Broadcasters may at times use a time compression process to speed up the actual program so that additional advertising time can be given. Since the decoder cannot read the compressed information, captions will be lost.
My prerecorded video tape does not show any captions. The tape box mentions it being closed captioned.	• The video tape was either an illegal copy or the tape duplicating company accidentally left out the captioning signals during the copying process.
My TV screen shows a black box on certain channels.	• You are in the TEXT mode. Select CAPTION mode to CAPTION [OFF].

DVD Mode

PROBLEM	CORRECTIVE ACTION
No picture	• Insert a correct video disc that plays on this unit. • Press the SELECT button on the remote control to select DVD mode. Then, try other DVD feature.
Disc cannot be played	• Insert the disc. • Clean the disc. • Place the disc correctly, with the label side up. • Cancel the parental lock or change the control level.
No sound	• Connect the audio cables firmly. • Turn the power of the audio component on. • Correct the audio output settings. • Correct the input settings on the audio component.
No DTS audio is output	• This unit does not support DTS audio. This is not a malfunction.
Distorted picture	• There are some cases where pictures may be slightly distorted, which are not a sign of a malfunction. • Although pictures may stop for a moment, this is not a malfunction.
Audio or subtitle language does not match the set up	• The selected language is not available for audio or subtitles on the DVD. This is not a malfunction.
The camera angle cannot be changed	• The DVD does not contain sequences recorded from different camera angles. This is not a malfunction.
Audio or subtitle language cannot be changed	• The DVD does not contain audio source or subtitles in the selected language. This is not a malfunction.
"Prohibited icon" appears on the screen, prohibiting an operation	• That operation is prohibited by the unit or the disc. This is not a malfunction.
CD sound dropout No CD reproduction DVD picture dropout DVD picture freeze DVD picture in mosaic No DVD reproduction	• Scratched disc. Replace the disc with an unscratched one.

NOTES:

• Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Owner's Manual for details on correct operations.

• Playback from a desired track and random playback are not available during program playback.

MAINTENANCE

CABINET CLEANING

• Wipe the front panel and other exterior surfaces of the unit with a soft cloth immersed in lukewarm water and wrung dry.

• Never use a solvent or alcohol. Do not spray insecticide liquid near the unit. Such chemicals may cause damage and discoloration to the exposed surfaces.

AUTO HEAD CLEANING

• Automatically cleans video heads as you insert or remove a cassette, so you can see a clearer picture.

• Playback picture may become blurred or interrupted while the TV program reception is clear. Dirt accumulated on the video heads after long periods of use or the usage of rental or worn tapes can cause this problem.
If a streaky or snowy picture appears during playback, the video heads in your unit may need to be cleaned.

1. Please visit your local Audio/Video store and purchase a good quality VHS Video Head Cleaner.
2. If a Video Head Cleaner does not solve the problem, please call our help line at 1-800-256-2487, to locate an Authorized Service Center.

NOTES:

• Remember to read the instructions included with the video head cleaner <u>before use</u>.

• Clean video heads only when problems occur.

SERVICING

• Should your unit become inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power cord and please call our help line at 1-800-256-2487, to locate an Authorized Service Center.

IF THE LASER OPTICAL PICKUP UNIT IS DIRTY

• If the unit still does not perform properly when it is operated, while referring to the relevant sections and to "TROUBLESHOOTING GUIDE" in this Owner's Manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

DISC HANDLING

• Use discs which have the following logos on them. (Optical audio digital discs.)

• Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.

• Always store the disc in its protective case when it is not used.
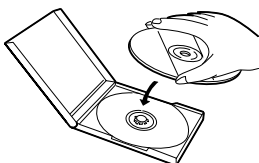
• To clean-off, use a soft cloth.
• Do not use a hard cloth since this will mar the disc.
• Wipe the disc in a straight line from center to edge.
• Never wipe with a circular motion.
• Do not use detergent or abrasive cleaning agents.

SPECIFICATIONS

GENERAL SPECIFICATIONS

TV/VCR

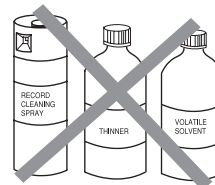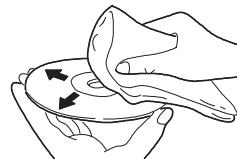|	
CRT	19 inch in-line gun, 90° deflection tube
Television system :	NTSC-M
Closed caption system :	§15.119/FCC
Video Heads :	Rotary four-head
Tape width :	1/2 inch

Tape speed
SP :	33.40mm/sec.
LP :	16.67mm/sec.
SLP :	11.12mm/sec.

Tuner channel
TV VHF Low :	#2~#6
TV VHF High :	#7~#13
TV UHF :	#14~#69
CATV	
VHF :	5A
MID band :	A5~A1, A~I
SUPER band :	J~W
HYPER band :	W+1~W+84

DVD

Product type:	DVD Player
Discs:	DVD video, Audio CD
Output signal format:	NTSC color

ELECTRICAL SPECIFICATIONS

Sound output:	2 speakers, 1W, 8 ohm

OTHER SPECIFICATIONS

Terminals
Antenna input:	VHF/UHF/CATV 75 ohm unbalanced (F-type)
Video input:	RCA connector × 1
Audio L/R input:	RCA connector × 2
Headphone:	1/8" stereo (3.5 mm)
Coaxial digital audio output:	One pin jack, 500m Vpp (75 ohm)
Remote control:	Digital encoded infrared light system
Operating temperature:	5°C to 40°C (41°F~104°F)
Power requirements:	AC 120V, 60Hz
Power consumption (Maximum):	90W
Picture tube:	19"
Dimensions:	H:19-11/16" (500mm) W:21-7/8" (556mm) D:18-3/4" (476.5mm)
Weight:	45.2 lbs (20.5kg)

- **Designs and specifications are subject to change without notice.**
- **If there is a discrepancy between languages, the default language will be English.**

INDICE

CONTROLES DE OPERACIÓN Y FUNCIONES

PANEL FRONTAL DEL UNIDAD

Consulte la figura 1 de la página 9

MANDO A DISTANCIA

Consulte la figura 2 de la página 9

VISTA POSTERIOR

Consulte la figura 3 de la página 10

1. **Botón POWER**
   Presione este botón para conectar y desconectar la alimentación.

2. **Botones VOLUME (VOL.) △/▽**
   Presione estos botones para controlar el nivel de volumen del DVD y el televisor.

3. **Botones SKIP/SEARCH (para DVD)**
   Presione el botón correspondiente una vez para omitir capítulos o pistas y desplazarse a un punto específico. Mantenga el botón presionado para cambiar la velocidad de reproducción en avance o retroceso.

4. **Botón PLAY**
   Inicia la reproducción del contenido del disco o cinta.

5. **Botón STOP**
   Detiene la reproducción del disco.

6. **Botón OPEN/CLOSE**
   Presione este botón para insertar discos en la bandeja o retirarlos de ella.

7. **Bandeja de carga del disco**

8. **Indicador DVD**
   Se ilumina durante el modo DVD.

9. **Botón SELECT**
   Presione este botón para cambiar al modo TV/VCR, modo de entrada externa o modo de DVD.

10. **Indicador TV/VCR**
    Se ilumina durante el modo TV/VCR.

11. **Botones CHANNEL (CH.) ▲/▼**
    Utilice estos botones para seleccionar canales memorizados.

12. **Indicador de grabación**
    Parpadea durante la grabación. Se ilumina durante el modo de espera de grabación controlada por temporizador.

13. **Botón REC/OTR (Panel frontal)**
    Presione para empezar la grabación manual. Presione repetidamente para empezar la grabación instantánea (OTR).
    Botón RECORD (Mando a distancia)
    Presione para empezar la grabación manual.

14. **Botón REW (para TV/VCR)**
    Presione este botón para rebobinar la cinta o para ver la imagen rápidamente en dirección de retroceso durante el modo de reproducción. (Búsqueda en dirección de retroceso)

15. **Botón F.FWD (para TV/VCR)**
    Presione este botón para adelantar rápidamente la cinta o para ver la imagen rápidamente en dirección de avance durante el modo de reproducción. (Búsqueda en dirección de avance)

16. **Botón STOP/EJECT**
    Presione este botón para detener la cinta. Presiónelo en el modo de parada para retirar la cinta del unidad.

17. **Ventanilla del sensor de mando a distancia**

18. **Toma HEADPHONE**
    Para conectar auriculares (no suministrados) y escuchar en privado.

19. **Toma de entrada VIDEO**
    Conecte aquí la toma de salida de vídeo de una videocámara o de una videograbadora.

20. **Tomas de entrada AUDIO L/R**
    Conecte aquí las tomas de salida de audio de una videocámara o de una videograbadora.

21. **Compartimiento del cassette**

22. **Botón PICTURE**
    Presione este botón para ajustar la imagen.

23. **Botones numéricos**
    Modo TV/VCR:
    Presione dos botones para acceder directamente al canal deseado.
    No olvide presionar "0" antes de elegir un canal de un solo dígito.
    Botón +100
    Presione este botón para seleccionar canales de televisión por cable cuyo número sea igual o superior a 100.
    Modo DVD:
    Presione este botón para introducir el número deseado.
    Botón +10
    Presione este botón para introducir números iguales o mayores que 10.

24. **Botón PAUSE**
    Hace una pausa en la reproducción del disco o cinta.

25. **Botón SPEED**
    Presione este botón para seleccionar la velocidad de grabación deseada: SP/SLP.

26. **Botón C.RESET**
    Presione este botón para poner el contador en 0:00:00. Presiónelo también para cancelar un ajuste de programa de temporizador.

27. **Botón DISPLAY**
    Modo TV/VCR:
    Para visualizar el contador o el número del canal y la fecha actual en la pantalla del televisor.
    Modo DVD:
    Indica el estado actual en la pantalla del televisor para fines de comprobación.

28. **Botón SETUP**
    Presione este botón para activar o salir del modo de menús de televisor o configuración de DVD.

29. Botón TITLE
Para visualizar el menú de títulos.

30. Botón CLEAR
Para cancelar ajustes.

31. Botón MODE
Activa el modo de reproducción programada o el modo de reproducción aleatoria.

32. Botón SEARCH MODE
Presione este botón para localizar un punto deseado.

33. Botón AUDIO
Presione este botón para seleccionar un idioma de audio o el modo de sonido deseado.

34. Botón SUBTITLE
Presione este botón para seleccionar el idioma de subtítulos deseado.

35. Botón REPEAT
Repite la reproducción del disco, título, capítulo o pista actual.

36. Botón ANGLE (modo DVD)
Presione este botón para cambiar el ángulo de la cámara y ver la secuencia que se está reproduciendo desde un ángulo diferente.

37. Botón A-B REPEAT
Repite la reproducción de una sección seleccionada.

38. Botón RETURN
Permite volver a la operación anterior en el modo de configuración de DVD.

39. Botón ENTER
Presione este botón para establecer un ajuste.

40. Botones de flechas
Modo TV/VCR:
Presione estos botones para seleccionar un modo de ajuste en el menú que aparece en la pantalla del televisor. Presiónelos también para seleccionar opciones o establecer ajustes en un menú en particular.
Modo DVD:
Use estos botones para hacer ajustes mientras observa la imagen en la pantalla del televisor.

41. Botón DISC MENU
Muestra los menús contenidos en el DVD.

42. Botón V.SURR
Activar/desactivar el envolvente virtal.

43. Botón MUTE
Suprime la salida de sonido. Presiónelo de nuevo para restablecer el sonido.

44. Botón SLEEP
Utilice este botón para ajustar el temporizador de dormir.

45. Botón SELECT
Presione este botón para cambiar entre los modos TV/VCR y DVD. El modo seleccionado (TV/VCR o DVD) se visualiza en el indicador del panel delantero.

46. Toma de entrada ANT.
Conéctela a una antena, sistema de televisión por cable o sistema de satélite.

47. Cable de alimentación
Conéctelo a una toma de CA estándar (120V/60Hz).
NOTA: Antes de conectar el cable de alimentación a una toma de CA estándar, retírelo del gancho para evitar dañarlo.

48. Toma de salida de audio digital COAXIAL
Conéctela solamente a la entrada digital de un amplificador externo o decodificador de audio de DVD.

PREPARACIÓN PARA LA UTILIZACIÓN

CONEXIONES DE ANTENA/CABLE

Consulte la figura 4 de la página 11

ANTENAS SEPARADAS DE VHF/UHF
En algunas zonas será necesario utilizar una antena exterior.

TELEVISIÓN POR CABLE SIN CAJA DE CONVERTIDOR/DECODIFICADOR
Utilice esta conexión si su sistema de televisión por cable se conecta directamente a su unidad, sin una caja de convertidor.
Con esta conexión podrá:
1) Utilizar el mando a distancia del unidad para seleccionar canales.
2) Programar uno o más canales decodificados para grabación automática controlada por temporizador.
NOTA: Este unidad <u>SÓLO</u> puede grabar el canal que se está viendo.

TELEVISIÓN POR CABLE CON CAJA DE CONVERTIDOR/DECODIFICADOR O CAJA DE SATÉLITE
Si su compañía de televisión por cable le suministra una caja de convertidor o si utiliza un sistema de satélite, podrá utilizar la conexión básica que se muestra en la ilustración.
Al utilizar esta conexión, también podrá grabar canales codificados. Sin embargo, la selección de los canales deberá hacerse con la caja de convertidor o con la caja de satélite. Esto significa que no es posible cambiar de canal utilizando el mando a distancia del unidad. La grabación en ausencia (controlada por temporizador) está limitada a un canal a la vez.

PARA GRABAR UN CANAL CODIFICADO/DECODIFICADO
1. Ajuste el selector de canales del unidad al canal de salida de la caja de convertidor de televisión por cable o caja de satélite. (Ej., CH3)
2. Seleccione el canal que desea grabar en la caja de convertidor de televisión por cable o caja de satélite.

Nota para el instalador de sistemas CATV
Esta nota tiene la finalidad de llamar la atención del instalador de sistemas CATV para que tenga en cuenta el Artículo 820-40 de la NEC, que proporciona recomendaciones para hacer una conexión a tierra apropiada y, en particular, especifica que la tierra del cable debe conectarse al sistema de puesta a tierra del edificio, tan cerca del punto de entrada del cable como sea posible.

CONEXIÓN A TOMAS DE ENTRADA EXTERNA

Cuando vea un programa grabado en otra fuente (videograbadora o videocámara), utilice las tomas de entrada de audio/vídeo de la parte delantera del unidad. Conecte las tomas de salida de audio/vídeo de otra fuente a las tomas AUDIO L/R y VIDEO de este unidad. Luego, presione los botón CHANNEL ▲ o ▼ hasta que aparezca "AUX" en la pantalla.
**NOTA:**
• Cuando conecte una videograbadora monofónica (otra fuente) a este televisor/videograbadora/DVD, conecte la toma de salida de audio de la videograbadora monofónica (otra fuente) a la toma AUDIO L de este unidad. El audio saldrá igualmente por los canales izquierdo y derecho.

Consulte la figura 5 de la página 12

PARA INSERTAR LAS PILAS

1) Abra la cubierta del compartimiento de las pilas empujando la cubierta del mando a distancia en el sentido de la flecha.
2) Inserte 2 pilas "AA" en el compartimiento de las pilas, en el sentido indicado por las marcas de polaridad (+/-).
3) Vuelva a poner la cubierta.
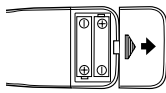
MODO DE ENTRADA EXTERNA

Al usar una señal de entrada externa (otra videograbadora o una videocámara), conecte los cables de salida de audio/vídeo del equipo externo a las tomas AUDIO L/R IN/ VIDEO IN de su unidad, luego presione los botón CHANNEL ▲ o ▼ hasta que aparezca "AUX" en la pantalla.

CONEXIÓN A UN AMPLIFICADOR ESTÉREO EQUIPADO CON TOMAS DE ENTRADA DIGITAL, PLATINA MD O PLATINA DAT (Para DVD)

Utilice un cable digital coaxial de audio de venta en el comercio especializado para hacer las conexiones de audio. Conexión a un amplificador equipado con tomas de entrada digital, platina MD o platina DAT.

| Consulte la figura 6 de la página 13 |

NOTAS:
- La fuente de audio de un disco grabado en formato de sonido envolvente Dolby Digital de 5,1 canales no se puede grabar como sonido digital mediante una platina MD o DAT.
- Asegúrese de desconectar la alimentación de todos los componentes del sistema antes de conectar otro componente.
- Consulte los manuales de instrucciones de los componentes que va a conectar al unidad.
- Ajuste la función Dolby Digital a OFF para salida de audio en el modo de configuración. La reproducción en un unidad utilizando ajustes incorrectos puede generar ruido y distorsión, y también puede causar daños a los altavoces.

CONEXIÓN A UN DECODIFICADOR DOLBY DIGITAL (para DVD)

Si utiliza este unidad para reproducir un disco DVD grabado en formato de sonido envolvente Dolby Digital de 5,1 canales, el unidad emitirá un flujo de datos DOLBY DIGITAL desde su toma de salida de audio digital COAXIAL. Si conecta el reproductor a un decodificador Dolby Digital, podrá disfrutar de una tonalidad más convincente y real, con un sonido envolvente potente y de alta calidad similar al de los cines.

Utilice cables digitales coaxiales de audio disponibles en el comercio especializado para hacer las conexiones de audio.

| Consulte la figura 7 de la página 14 |

NOTAS:
- Asegúrese de desconectar la alimentación de todos los componentes del sistema antes de conectar otro componente.
- Consulte los manuales de instrucciones de los componentes que va a conectar al unidad.
- Si conecta un decodificador Dolby Digital, ajuste la función DOLBY DIGITAL a ON para salida de audio en el modo de configuración.
- A menos que se haga la conexión a un decodificador Dolby Digital, ajuste la función Dolby Digital a OFF para salida de audio en el modo de configuración. La reproducción en un unidad utilizando ajustes incorrectos puede generar ruido y distorsión, y también puede causar daños a los altavoces.

Fabricado bajo licencia de Dolby Laboratories. "Dolby" y el símbolo de la D doble son marcas de fábrica de Dolby Laboratories.

SECCIÓN DE TV/VCR

PREPARACIÓN PARA LA UTILIZACIÓN

SELECCIÓN DE IDIOMA

TV/VCR

1 **Enchufe el cordón de alimentación del unidad**
Enchufe el cordón de alimentación del unidad en una toma de CA estándar.
NOTA:
- Si aparecen algunas cifras en la esquina de la pantalla, pulse el botón POWER sin desenchufar el cordón de alimentación.

Asegúrese de que ...
- Pulse el botón POWER para encender el unidad.
NOTA: Esta función afecta sólo el idioma en el menú de la pantalla y no la fuente de audio.

2 **Seleccione "LANGUAGE"**
Pulse el botón SETUP en el mando a distancia.
Pulse el botón ▲ o ▼ para señalar "LANGUAGE".

3 **Seleccione "ENGLISH", "ESPAÑOL" o "FRANÇAIS"**
Seleccione "ENGLISH", "ESPAÑOL" o "FRANÇAIS" con el botón ENTER.

4 **Salga del modo de idioma**
Pulse el botón SETUP en el mando a distancia para volver al modo del televisor.

NOTA: Si, por alguna razón, el menú está en español o francés, pulse el botón SETUP en el mando a distancia, pulse el botón ▲ para señalar el "LANGUAGE [ENGLISH]" o "LANGAGE [FRANÇAIS]", a continuación, pulse el botón ENTER y pulse el botón SETUP en el mando a distancia.

AJUSTE DE CANAL

TV/VCR

Puede programar el sintonizador para buscar todos los canales que recibe en su localidad.

NOTA: El canal preparado NO es necesario cuando esté conectado a una caja de cable o caja de satélite. Sólo tiene que seleccionar con el selector de canal del unidad al canal de salida de la caja de cabe o caja de satélite (por ejemplo el canal CH3). Seleccione el canal a ver en la caja de cable o caja de satélite.

Asegúrese de que ...

• Pulse el botón POWER para encender el unidad.

1 Seleccione "AJUSTE DE CANAL"

Pulse el botón SETUP en el mando a distancia.

Pulse el botón ▲ o ▼ para señalar "AJUSTE DE CANAL".

A continuación, pulse el botón ENTER.

2 Empiece el prefijado automático

Pulse el botón ▲ o ▼ para señalar "AUTOPROGRA-MACION DE CA."

A continuación, pulse el botón ENTER.

El sintonizador busca y memoriza todos los canales activos en su localidad.

3 Después de buscar

El sintonizador se detiene en el canal memorizado más bajo.

• Cuando se activa AUTOPROGRAMACION DE CA, donde no hay entrada de señal del televisor, aparecerá "NO HAY SEÑAL DE TV" en la pantalla después de terminar la búsqueda de canales.

• El unidad puede reconocer los canales de TV para que sean canales de TV de antena de cable con las condiciones de recepción. En este caso, pruebe nuevamente con el prefijado automático en las condiciones de recepción fina.

AJUSTE DEL RELOJ

TV/VCR

Cerciórese...

• La alimentación del unidad deberá estar conectada.
En el ejemplo de abajo, el reloj va a ajustarse así:
FECHA: 6 de mayo de 2004
HORA: 5:40 PM

1) Pulse el botón SETUP en el mando a distancia. Pulse el botón ▲ o ▼ para indicar "AJUSTE RELOJ", luego pulse el botón ENTER.

2) Pulse el botón ▲ o ▼ para indicar "AJUSTE MANUAL RELOJ", luego pulse el botón ENTER.

3) Pulse el botón ▲ o ▼ hasta que aparezca el mes deseado (Ejemplo: Mayo - 05), luego pulse el botón ▶.

4) Pulse el botón ▲ o ▼ hasta que aparezca el día del mes deseado (Ejemplo: 6 - 06), luego pulse el botón ▶.

5) Pulse el botón ▲ o ▼ hasta que aparezca el año deseado (Ejemplo: 2004), luego pulse el botón ▶.

6) Pulse el botón ▲ o ▼ hasta que aparezca la hora deseada (Ejemplo: 5, PM), luego pulse el botón ▶.

7) Pulse el botón ▲ o ▼ hasta que aparezca el minuto deseado (Ejemplo: 40).

8) Pulse el botón SETUP en el mando a distancia. Aunque los segundos no se visualizan, éstos empiezan a contar desde 00 cuando se pulsa MENU en el mando a distancia. Utilice esta función para sincronizar el reloj con la hora correcta.

SECCIÓN DE DVD

REPRODUCCIÓN BÁSICA

DVD-V   **CD**   **MP3**

Para empezar

• Conecte la alimentación del amplificador y otros componentes, si es necesario.

1 Presione el botón POWER.

• La alimentación se conectará.

2 Presione el botón OPEN/CLOSE para abrir la bandeja de carga del disco.

3 Ponga el disco deseado en la bandeja, con la etiqueta hacia arriba.

4 Presione el botón PLAY.

• La bandeja se cerrará automáticamente y la reproducción comenzará desde el primer capítulo o pista del disco. Si la reproducción no comienza automáticamente, presione el botón PLAY.

• Cuando reproduzca un DVD que tenga grabado un menú de títulos, el menú podrá aparecer en la pantalla.

5 Presione el botón STOP para detener la reproducción.

⑥ *Emerson*®
LIMITED WARRANTY

FUNAI CORP. will repair this product, free of charge in the USA in the event of defect in materials or workmanship as follows:

DURATION:

PARTS: FUNAI CORP. will provide parts to replace defective parts without charge for one (1) year from the date of original retail purchase. Two (2) years for Picture Tube. Certain parts are excluded from this warranty.

LABOR: FUNAI CORP. will provide the labor without charge for a period of ninety (90) days from the date of original retail purchase.

LIMITS AND EXCLUSIONS:

This warranty is extended only to the original retail purchaser. A purchase receipt or other proof of original retail purchase will be required together with the product to obtain service under this warranty.

This warranty shall not be extended to any other person or transferee.

This warranty is void and of no effect if any serial numbers on the product are altered, replaced, defaced, missing or if service was attempted by an unauthorized service center. This FUNAI CORPORATION Limited warranty does not apply to any product not purchased and used in the United States.

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IMPORTANT:

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE. IF, AT ANY TIME DURING THE WARRANTY PERIOD, YOU ARE UNABLE TO OBTAIN SATISFACTION WITH THE REPAIR OF THIS PRODUCT, PLEASE CONTACT FUNAI CORP.

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To locate your nearest FUNAI Authorized Service Center or for general service procedure, please call 1-800-256-2487 or write to the following:

FUNAI CORPORATION, INC.
SERVICE CENTER

19900 Van Ness Avenue, Torrance, CA 90501

Tel :1-800-256-2487
http://www.funai-corp.com

Head Office: 100 North Street, Teterboro, NJ 07608
PLEASE DO NOT SHIP YOUR UNIT TO THE TETERBORO ADDRESS.